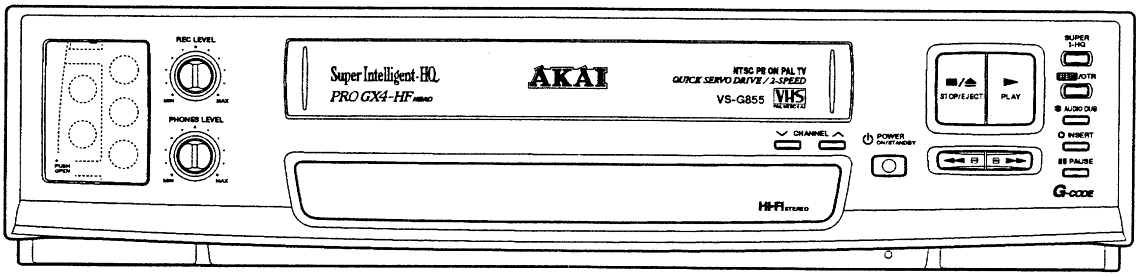
AKAI SERVICE MANUAL


REC LEVEL
MIN
MAX
PHONES LEVEL
PUSH OPEN
Super Intelligent-HQ
PRO GX4-HF
AKAI
NTSC PB ON PAL TV
QUICK SERVO DRIVE / 2-SPEED
VS-G855
VHS
CHANNEL
POWER ON/STANDBY
STOP/EJECT
PLAY
SUPER I-HQ
OTR
AUDIO DUB
INSERT
PAUSE
G-CODE
Hi-Fi STEREO

MODEL VS-G855EA-D

HQ HIGH QUALITY VHS PAL Hi·Fi

SHOWVIEW G-CODE

VIDEOPlus+

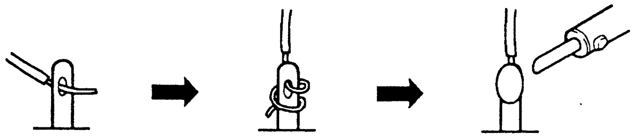
VIDEO CASSETTE RECORDER

MODEL VS-G740EOH-D
MODEL VS-G745EA-D/EK-N/EOH-D
MODEL VS-G746EK-N
MODEL VS-G755EOH-N
MODEL VS-G757EOG-D
MODEL VS-G855EA-D/EDG/EK-N/EOH-D
MODEL VS-G856EOH-DN
MODEL VS-G858EOG-VD

★ SAFETY INSTRUCTIONS

PRECAUTIONS DURING SERVICING

1. Parts identified by the ⚠ symbol are critical for safety. Replace them only with the parts number specified.
2. In addition to safety, other parts and assemblies are specified for conformance with such regulations as those applying to spurious radiation. These must also be replaced only with the specified replacements.
   Examples: RF converters, tuner units, antenna selector switches, RF cables, noise blocking capacitors, noise blocking filters, etc.
3. Use specified internal wiring. Note especially:
   1) Wires covered with PVC tubing
   2) Double insulated wires
   3) High voltage leads
4. Use specified insulating materials for hazardous live parts.
   Note especially:
   1) Insulation Tape
   2) PVC tubing
   3) Spacers (insulating barriers)
   4) Insulation sheets for transistors
   5) Plastic screws for fixing micro switches
5. When replacing AC primary side components (transformers, power cords, noise blocking capacitors, etc.), wrap the ends of the wires securely around the terminals before soldering.



6. Make sure that wires do not contact heat producing parts (heat sinks, oxide metal film resistors, fusible resistors, etc.).
7. Check that replaced wires do not contact sharp edged or pointed parts.
8. Also check areas surrounding repaired locations.
9. Make sure that foreign objects (screws, solder droplets, etc.) do not remain inside the set.

SAFETY CHECK AFTER SERVICING

After servicing, make measurements of leakage-current or resistance in order to determine that exposed parts are acceptably insulated from the supply circuit.

The leakage-current measurement should be done between accessible metal parts (such as chassis, ground terminal, microphone jacks, signal input/output connectors, etc.) and the earth ground through a resistor of 1500 ohms paralleled with a 0.15 μF capacitor, under the unit's normal working conditions.

The leakage-current should be less than 0.5 mA rms AC.

The resistance measurement should be done between accessible exposed metal parts and power cord plug prongs with the power switch (if included) "ON". The resistance should be more than 2.2 M ohms.

MAKE YOUR CONTRIBUTION TO PROTECT THE ENVIRONMENT

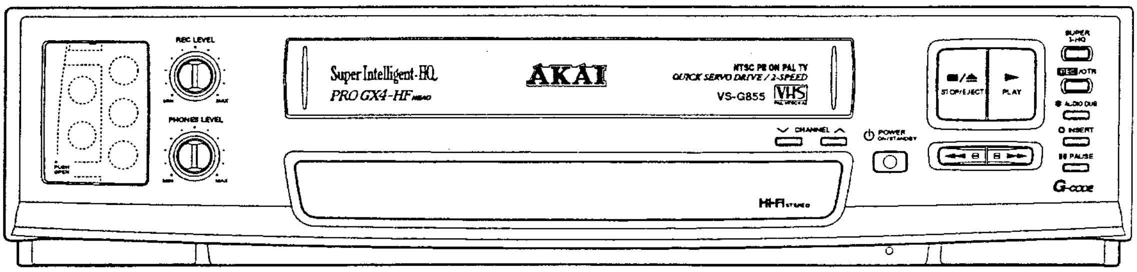
Used batteries with the ISO symbol for recycling as well as small accumulators (rechargeable batteries), mini-batteries (cells) and starter batteries should not be thrown into the garbage can.

Please leave them at an appropriate depot.

VS-G740 series (PAL)
VS-G750 series (PAL)

V17683

AKAI SERVICE MANUAL


REC LEVEL
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HQ HIGH QUALITY VHS PAL Hi·Fi

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VIDEO CASSETTE RECORDER

MODEL VS-G855EA-D/EDG/EK-N/EOH-D

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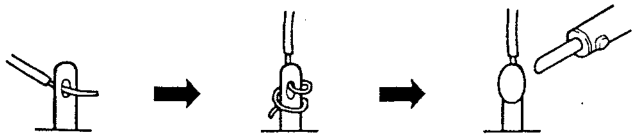

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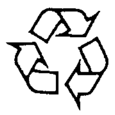
MAKE YOUR CONTRIBUTION TO PROTECT THE ENVIRONMENT



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★ SPECIFICATIONS

Format	
EA-D	VHS standard
Except EA-D	VHS standard (PAL/MESECAM)
Video recording system	Rotary, slant azimuth two-head helical scan system
Rotary heads	4 video heads and 2 audio heads
RF input	
EA-D	System B,G VHF: ch 0 - 5, 5A, 6 - 12, UHF: ch 21 - 69
EDG	System D,K VHF: ch 1 - 12, UHF: ch 21 - 69 System B,G VHF: ch 2 - 4, 5 - 12, UHF: ch 21 - 69 Cable: ch S1' - S3', S1 - S41
EK-N	System I UHF: ch 21 - 69
EOG-D/EOG-VD/EOH-D/ EOH-N/EOH-DN	System B,G (PAL, SECAM) VHF: ch 2 - 4, 5 - 12, UHF: ch 21 - 69 Cable: ch S1' - S3', S1 - S41
RF output	
EA-D	System B type modulation VHF ch 0, 1 switchable (preset: ch 1)
EDG	System K/G type modulation UHF ch 30 - 39 adjustable (preset: ch 36)
EK-N	System I type modulation UHF ch 30 - 39 adjustable (preset: ch 36)
EOG-D/EOG-VD/EOH-D/ EOH-N/EOH-DN	System G type modulation UHF ch 30-39 adjustable (preset: ch 36)
Stereo system	
EA-D/EOH-D/ EOG-D/EOG-VD	German Sound Multiplex (A2)
EK-N	NICAM-I (U.K. NICAM)
EOH-N	B/G NICAM
EOH-DN	German Sound Multiplex (A2) & B/G NICAM
Recording (line input)	
EA-D/EK-N	PAL
Except EA-D/EK-N	PAL SECAM (recorded as MESECAM)
Playback (line output)	
EA-D	PAL NTSC 4.43 (NTSC tape) Simulated PAL (NTSC tape)
EDG	PAL SECAM (MESECAM tape) NTSC 4.43 (NTSC tape) Simulated PAL (NTSC tape)
EK-N	PAL Simulated PAL (NTSC tape)
EOG-D/EOG-VD/ EOH-D/EOH-DN	PAL SECAM (MESECAM tape) Simulated PAL (NTSC tape)
EOH-N	PAL SECAM (MESECAM tape)

Video	
Line input level	0.5-2.0 Vp-p/75 ohms, unbalanced
Line output level	1.0 Vp-p/75 ohms, unbalanced
S/N ratio	More than 45 dB
Horizontal resolution	More than 250 lines
Audio (VHS Hi-Fi: 2 ch, linear: 1 ch)	
Line input level	–6 dBs/50 k ohms, unbalanced
Line output level	–6 dBs/1 k ohms, unbalanced
Dynamic range	More than 90 dB (VHS Hi-Fi)
Frequency response	20 - 20,000 Hz (VHS Hi-Fi)
Wow & Flutter	Less than 0.005 % WRMS (VHS Hi-Fi)
Recording/Playback time	
CCIR	240 min. with E-240 cassette in SP mode 480 min. with E-240 cassette in LP mode
NTSC (playback only)	160 min. with T-160 cassette in SP mode 480 min. with T-160 cassette in EP mode
Tape speed	
CCIR	23.39 mm/sec. in SP mode 11.695 mm/sec. in LP mode
NTSC	33.35 mm/sec. in SP mode 11.12 mm/sec. in EP mode
Quick finder	
CCIR	Approx. 7 times normal speed
NTSC	Approx. 5 times normal speed
FF, RWD time	Approx. 2 min. with E-180 cassette
Timer	
Program	8 programs/1 year and OTR
Clock reference	Quartz crystal
Display	FLD (tape counter, timer etc.)
Power requirement	220-240 V AC, 50 Hz
Power consumption	
745EA-D	19 W
740EOH-D,745EK-N/ EOH-D,746EK-N	20 W
755EOH-N, 757EOG-D,855EA-D	21 W
855EOH-D	22 W
855EDG/EK-N, 856EOH-DN	24 W
858EOG-VD	28 W
Operating temperature	5 °C - 40 °C
Dimensions	380 (W) x 90 (H) x 317 (D) mm
Weight	4.5 kg

Standard accessories

AC cord	1
Antenna cable	1
Remote control unit	1
Batteries for remote control	2 or 3
AC plug adaptor (ECP-L01BK-R5)	1 (EK-N only)
Operator's manual	1

0 dBs ≈ 0.775 VRMS

* For improvement purposes, specifications and design are subject to change without notice.

* VIDEO PLUS+ AND PLUSCODE ARE TRADEMARKS APPLIED FOR BY GEMSTAR DEVELOPMENT CORP.
VIDEO PLUS+ SYSTEM IS MANUFACTURED UNDER LICENCE FROM GEMSTAR DEVELOPMENT CORPORATION.

* SHOWVIEW IS A TRADEMARK APPLIED FOR BY GEMSTAR DEVELOPMENT CORPORATION.
SHOWVIEW SYSTEM IS MANUFACTURED UNDER LICENCE FROM GEMSTAR DEVELOPMENT CORPORATION.

* G-CODE IS A TRADEMARK APPLIED FOR BY GEMSTAR DEVELOPMENT CORPORATION.
G-CODE SYSTEM IS MANUFACTURED UNDER LICENCE FROM GEMSTAR DEVELOPMENT CORPORATION.

★ INFORMATION

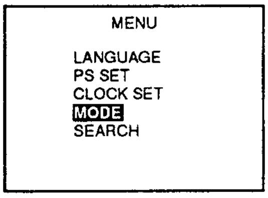
MULTI FUNCTION MENU MODE

This is an on-screen display of the various modes you can programme via the TV screen.

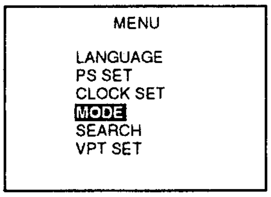
LANGUAGE : To select a language for the on-screen displays.
PS SET : To preset TV stations.
CLOCK SET : To set the clock.
MODE : To select the BSP (blank skip play), OSD (on screen display), AV MUTE, 16:9, SYST.(colour system), STEREO (AUTO/MONO), TV/VCR, DIMMER (FLD brightness) and AUTO OFF modes.
※ NOTE : 16:9 and SYST. selection are not available on some models.
SEARCH : To select the BLANK SEARCH and INTRO SCAN modes.
VPT SET : To set the VPT mode. (EOG-VD only)

If necessary, refer to the respective sections in the operator's manual for detailed information.

1. Press the "MENU" button on the remote control unit. The menu list screen will be displayed on the TV screen.



Except G858EOG-VD



G858EOG-VD

2. Select the desired menu with the "∧" or "∨" button.
3. Press the "OK" button. The selected menu screen will be displayed on the TV screen.
4. Select the desired mode (or function) with the "∨" or "∧" button. The number of the modes (or functions) depends on the sort of the menu.
5. Set the each mode (or function) by pressing the "∨" or "∧" button and ">" or "<" button.
6. Press the "OK" button. The selected menu screen will be disappeared few seconds after the "OK" button is pressed. This means the setting has been completed correctly.

MANUAL TRACKING/PICTURE/STABILITY ADJUSTMENT

Using the remote control, the VCR can be adjusted for tracking and picture sharpness anytime during the playback mode.

- Manual tracking control
  Press the "<" or ">" button repeatedly until the picture is clear. During manual tracking adjustment, the tracking position is shown on the TV screen, and disappears automatically after adjustment has been completed. Use this function when performing the A/C HEAD phase adjustment.
- Picture sharpness control
  Press the "∧" button repeatedly to sharpen the picture or press the "∨" button to soften the picture.
- Stability adjustment

1) To correct picture shake during the slow motion or still mode:
   Press the "∧" or "∨" button repeatedly until the picture shake is corrected.
2) To correct tracking during the still mode:
   Press the "<" or ">" button repeatedly until the picture is clear.

ERROR ANNOUNCEMENT

When a malfunction occurs, the following error indicators appear on the FL display to indicate the problem when the power is turned off.

Err 1 : AL power supply has short circuited.
Err 2 : The loading motor has stopped.
(When the mechanism position detect switch is not able to read the specified code, that is to say not able to reach the specified position within the specified time.)
Err 3 : The drum motor has stopped.
(When the drum motor does not rotate due to condensation, etc.)

PRESETS IN THE TEST MODE

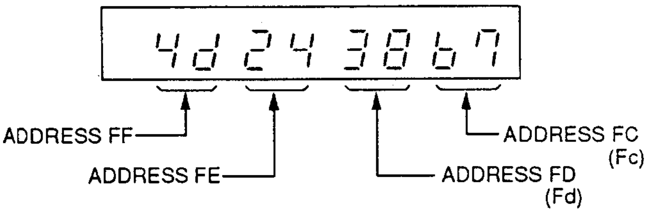
1) Engaging the "TEST MODE"

To set the VCR to the TEST MODE, press the "reset" button on the front panel first then plug in the AC power cord while pressing and holding both the "POWER" and "STOP/EJECT" buttons (on the front panel) at the same time.
Press the "reset" button to disengage the "TEST MODE". (The test mode is not disengaged, even if the AC cord is disconnected, without pressing the "reset" button.)

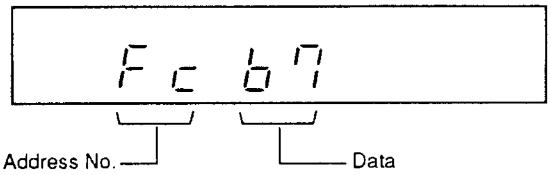
NOTE: Once the "reset" button has been pressed, clock and program data will be cancelled.

2) Model code preset

1. Engage the "test mode". (Never turn the power on.) The model code will be displayed in the FL display in 8 digit form.



2. While pressing both the "FF" and "RWD" buttons, press the "reset" button. (Never release the "FF", "RWD" buttons and "reset" button at the same time. Make sure to release the "reset" button first. Then keep holding the "FF" and "RWD" buttons until the address number "Fc" appears.)
   The address number will be shown in 2 digits in the minutes display of the FL display and its data will be shown in 2 digits in the seconds display.
   (The address number will be shown in the hours display and minutes display on the G700 series models.)



3. Select address "Fc" by pressing the "FF" or "FWD" button if the address "Fc" is not appeared.
4. Choose the data in the address Fc column, that corresponds to the model number you are working on, from the following list. Set the chosen data value by pressing the "STOP" or "PLAY" button.

MODEL	MODEL CODE	ADDRESS			
		Fc	Fd	FE	FF
VS-G740EOH-D	1596B113	13	b1	96	15
VS-G745EA-D	35243813	13	38	24	35
VS-G745EK-N	4D5E3033	33	30	5E	4d
VS-G745EOH-D	3596B113	13	b1	96	35
VS-G746EK-N	4D1E3033	33	30	1E	4d
VS-G755EOH-N(E)	4D8C3133	33	31	8c	4d
VS-G755EOH-N(S)	358C3133	33	31	8c	35
VS-G757EOG-D	4D93B173	73	b1	93	4d
VS-G855EA-D	4D2438B7	b7	38	24	4d
VS-G855EDG	4D81BBBF	bF	bb	81	4d
VS-G855EK-N	4D5E70BF	bF	70	5E	4d
VS-G855EOH-D	4D96F1BF	bF	F1	96	4d
VS-G856EOH-DN	4D9EF1BF	bF	F1	9E	4d
VS-G858EOG-VD	4D93F1FF	FF	F1	93	4d

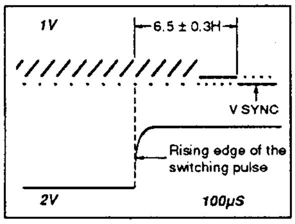
(On the FL display, B, C and D are indicated with small letters.)

5. Memorize the data into the EEP ROM IC by pressing the "REC" button.
6. The address "Fd" and its data will be shown in the FL display approx 2 seconds later automatically. Repeat the presetting (steps 4 to 5) for addresses "Fd", "FE" and "FF" in the same manner as address "Fc".
7. Press the "reset" button to disengage the model code preset mode.

NOTE : This model code preset is absolutely necessary when the IC406 (EEP-ROM) on the MAIN PCB is replaced.

3) Video switching point preset

1. Engage the "test mode" and press the "POWER" button.
2. Connect CH-1 of an oscilloscope to VIDEO OUT and CH-2 to the TP502 (V-SWP) on the PRE AMP PCB for triggering.
3. Play back the reference tape TF-530RFS (Part No. : AT-751775). Check the seconds display of the FL display so that "1F" (center position in the tracking range) is indicated at this point. If not indicated, press the "<" or ">" button on the remote control until "1F" is indicated.
4. Press the "REC" button during playback.
5. Confirm that the switching point is positioned 6.5 ± 0.3 H before the left edge of the V-sync as shown.



NOTE:

a) Make sure that the A/C head phase adjustment has been adjusted correctly before making video switching point preset. (Refer to step 5-3-2)
b) This switching point preset is absolutely necessary after the folllowing replacements.

- When the video head drum (upper drum) is replaced.
- When the DRUM MOTOR PCB or DRUM MOTOR's ROTARY MAGNET (ROTARY PLATE) is replaced.
- When the SERVO/SYSCON MI-COM or EEP ROM IC (IC406) on the MAIN PCB is replaced.

4) Memorization of the reference RF envelope detect voltage (I-HQ)

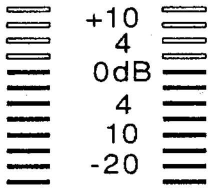
For correct operation of the I-HQ tape tuning system, memorization of the reference RF envelope detect voltage is absolutely necessary. When the VIDEO HEAD DRUM, PRE AMP PCB or EEP ROM IC in the MAIN PCB is replaced for any reason, memorize the reference RF envelope detect voltage according to the following procedure.

1. Engage the test mode.
2. Turn the VCR power ON.
3. Set the tape speed to "LP mode".
4. Insert the I-HQ test tape "TF-556AT" (AT-751822J) and then perform tape tuning by pressing both the "I-HQ" and "REC" buttons simultenuously.
5. Make a recording on the I-HQ test tape for more than 1 minute and then rewind it to the point where the recording was started.

6. Play back the tape. Reference RF envelope detect voltage data in the memory is displayed in 2 digits in the minutes display part of the FL display and the present envelope detect voltage data is displayed in 2 digits in the seconds display part (the data is displayed in hexadecimal numbers).
7. After the auto tracking has been activated, press the "CANCEL" button on the remote control unit. So present RF envelope detect voltage data will be transferred to the minutes part's 2 digits and memorized in the EEP ROM IC.
8. Next, set the tape speed to "SP mode" and repeat the steps 4 to 7.
9. Terminate the test mode.

5) Audio level meter sensitivity adjustment (G800 series models only)

1. Engage the test mode and press the "POWER" button.
2. Connect an AUDIO SIGNAL GENERATOR to the AUDIO INPUT terminal and an AC milli-voltmeter to the AUDIO OUTPUT terminal.
3. Set the REC LEVEL volume on the FRONT PANEL to the center position then input a 1 kHz, –6 dBs sinewave signal. Finely adjust the AUDIO SIGNAL GENERATOR output level so that the VCR's L-CH output level is exactly –6 dBs. Confirm that the R-CH output level is –6 dBs ± 1.0 dB at this point.
4. Press the "AUDIO MONITOR" button on the REMOTE CONTROL once so that the FLD indicates "Hi-Fi L".
5. Next, press the "MENU" button on the REMOTE CONTROL. The menu list screen appears on the TV screen.
6. Press the "REC" button on the REMOTE CONTROL. The minute and seconds digits of the FLD start flashing and the adjustment will be completed a few second later.
   (A –6 dBs level will be referenced by the micro computer. The micro computer determines bar meter sensitivity according to this level.)
   Change the AUDIO SIGNAL GENERATOR output slightly and confirm that both the bar meter's 0 dB indicators on the FLD turn on at the same time when the L-CH output reaches –6 dBs.



7. If the result is not satisfactory, repeat steps 3 to 6.
8. Press the "reset" button to disengage the test mode.

6) Other facilities in the test mode

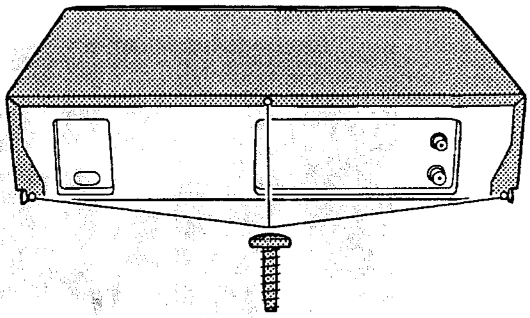
1. **Tracking position display**
   In the "SP play" mode, tracking position data can be displayed on the FL display. Data is displayed in 64 steps in hexadecimal numbers from "00" to "3F" in the OTR's minute stop time part on the FL display. (Tracking position data appears in the channel display part on the G700 series models.) Pressing the "TV/VCR" button on the remote control unit during playback directly sets the tracking to the maximum "3F" position and pressing the "COUNTER RESET" button sets it to the minimum "00" position.
   Pressing the "PLAY" button during playback sets tracking to the center position "1F" automatically. If "1F" does not appear even when the "PLAY" button is pressed, keep pressing the "<" or ">" cursor button on the remote control unit until "1F" is indicated and then press the "OK" button to memorize the position.
2. **TIMER function confirmation**
   During the "test mode", the clock's minute part is advanced by a second when the power is turned off. This means that the "timer" function can be confirmed in a short time.
3. **Suspension of the tape protection system**
   When the VCR is not in the "test mode", the "REC PAUSE" mode will be released after 30 minutes in order to protect the tape. The "STILL" mode will also be released after 5 minutes. During the "test mode", however this tape protection system will not operate.

※ Video head rotation will stop 5 min. after the "REC PAUSE" mode has been engaged even during the test mode.

I. DISASSEMBLY

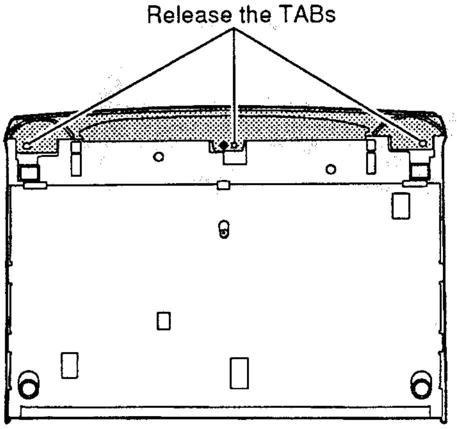
In case of trouble, etc., necessitating dismantling, please dismantle in the order shown in the illustrations.
Reassemble in the reverse order.
When reattaching the FRONT PANEL, hold the cassette loading slot door in the upright (open) position.

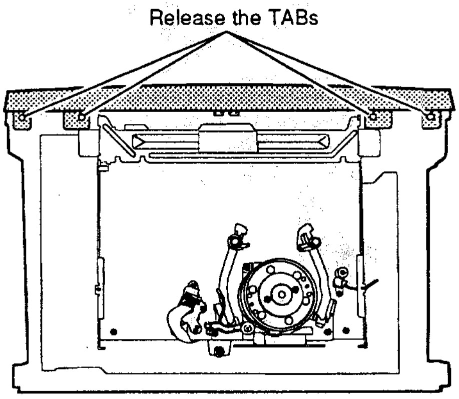
1. Removal of UPPER COVER



Lift the back part of the UPPER COVER up to remove.

2. Removal of FRONT PANEL





II. PRINCIPAL PARTS LOCATION

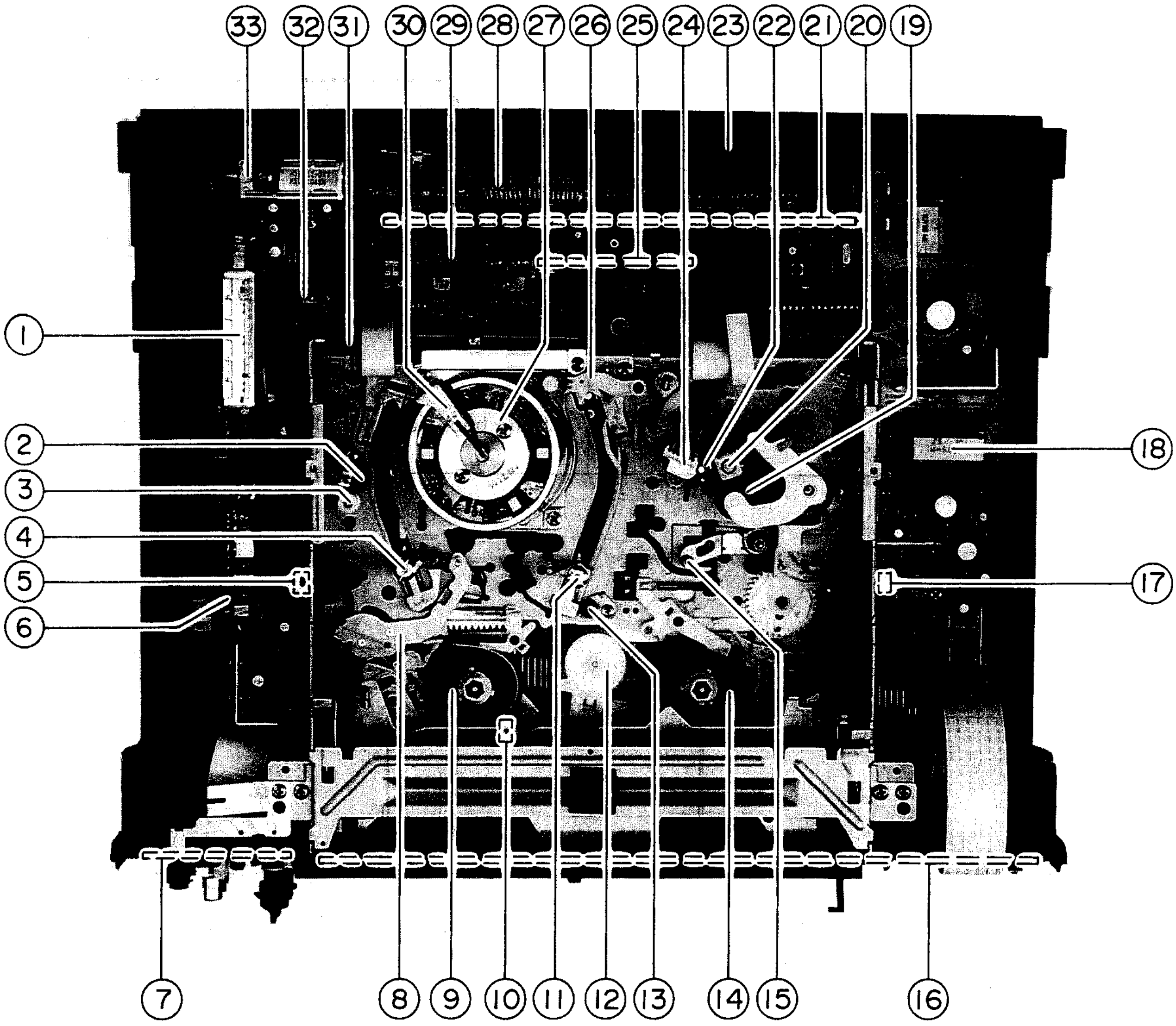


Fig. 2-1 Top view

1. TUNER UNIT	17. START SENSOR
2. FULL TRACK ERASE HEAD	18. PULSE POWER TRANSFORMER
3. SUPPLY TAPE GUIDE	19. PINCH ROLLER
4. SUPPLY LOADING LEADER	20. CAPSTAN MOTOR BLOCK
5. END SENSOR	21. VPST PCB (EOG-VD model only)
6. VIF-Hi-Fi PCB (except EDG model) VIF-EDG PCB (EDG model only)	22. TAKE UP TAPE GUIDE
7. FRONT-H PCB (G800 series models only) FRONT-L PCB (G700 series models only)	23. PCB HOLDER
8. TENSION ARM	24. A/C (AUDIO, CONTROL & SIDE TRACK ERASE) HEAD
9. SUPPLY REEL TABLE	25. D-MULTI PCB (EA-D,EOH-D,EOG-D/VD models only)
10. REC SAFETY SWITCH	26. HEAD CLEANER BLOCK
11. TAKE UP LOADING LEADER	27. VIDEO HEAD DRUM BLOCK
12. IDLER ARM PART	28. IN/OUT PCB (EA-D,EK-N,EOH-N models only) DECODER PCB (EDG,EOG-D/VD,EOH-D/DN models only)
13. SENSOR LED	29. D-NICAM PCB (EOH-N/DN,EK-N models only)
14. TAKE UP REEL TABLE	30. EARTH BRUSH
15. REVIEW ARM	31. PRE AMP PCB
16. OPERATION-H PCB (G800 series models only) OPERATION-L PCB (G700 series models only)	32. VIDEO PCB
	33. RF CONVERTER UNIT

※ The photograph on this page is of model VS-G856EOH-DN.

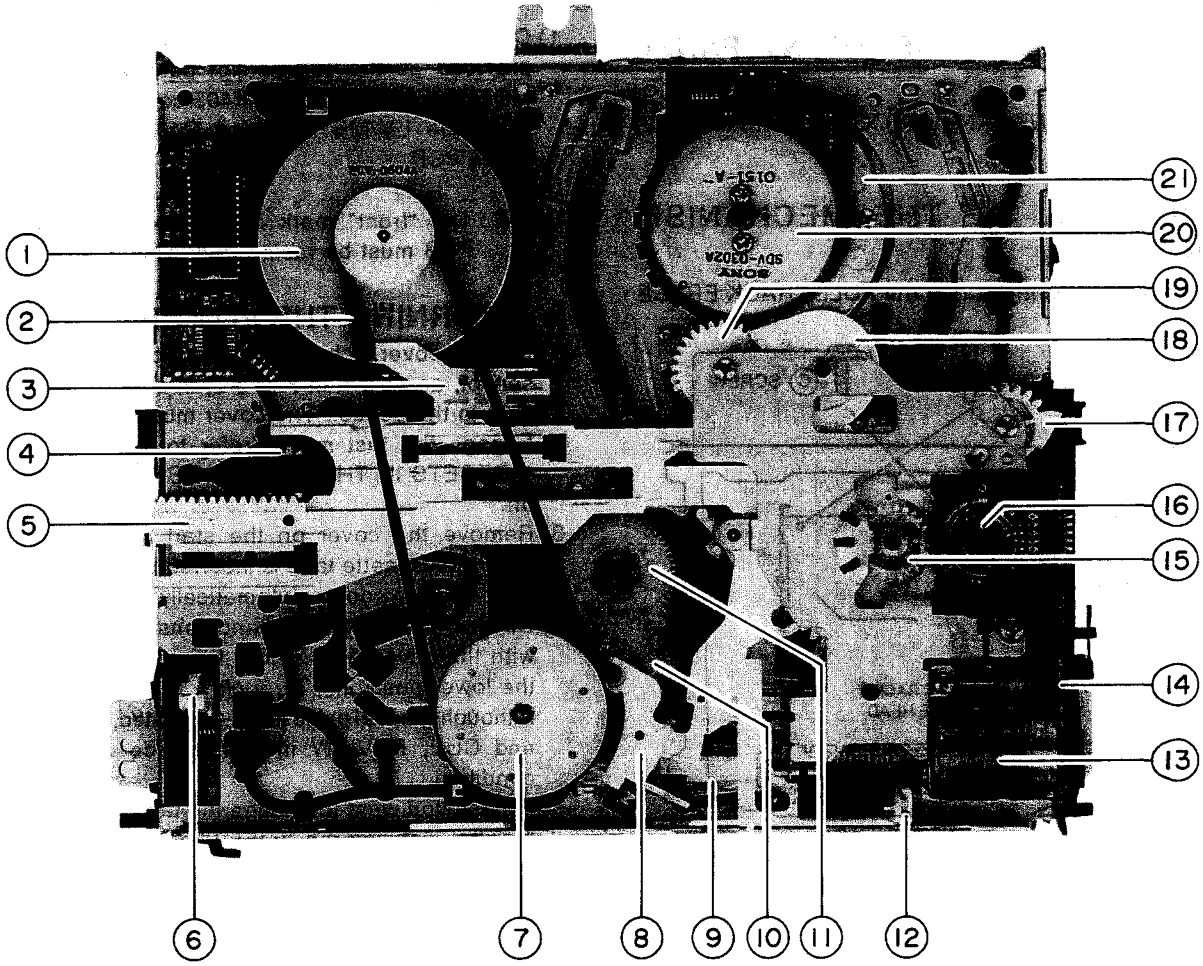


Fig. 2-2 Bottom view

1. CAPSTAN MOTOR BLOCK
2. CAPSTAN BELT
3. STILL BRAKE PART
4. PINCH GEAR
5. PINCH SLIDER
6. LOADING ARM BLOCK
7. CLUTCH DISK PART
8. COUPLING ARM
9. TRIGGER SLIDER
10. COUPLING GEAR BLOCK
11. IDLER ARM PART
12. REC.S LEVER
13. LOADING MOTOR
14. LM/MS PCB
15. CAM SLIDER GEAR
16. MODE DETECT SWITCH
17. FRONT LOADING GEAR
18. TOGGLE (S) GEAR BLOCK
19. TOGGLE (T) GEAR BLOCK
20. DRUM MOTOR BLOCK
21. DRUM CHASSIS

III. VIEWING THE OPERATION OF THE BOTTOM SIDE OF THE MECHANISM BLOCK

※ In case you want to check the operation of the bottom side of the mechanism block, proceed as follows.

3-1. REMOVAL OF THE FRONT PANEL BLOCK

1) Remove the FRONT PANEL BLOCK (refer to step 1-2, on page 7).

3-2. REMOVAL OF THE MECHANISM BLOCK

1) Disconnect the connector on the FULL TRACK ERASE HEAD.

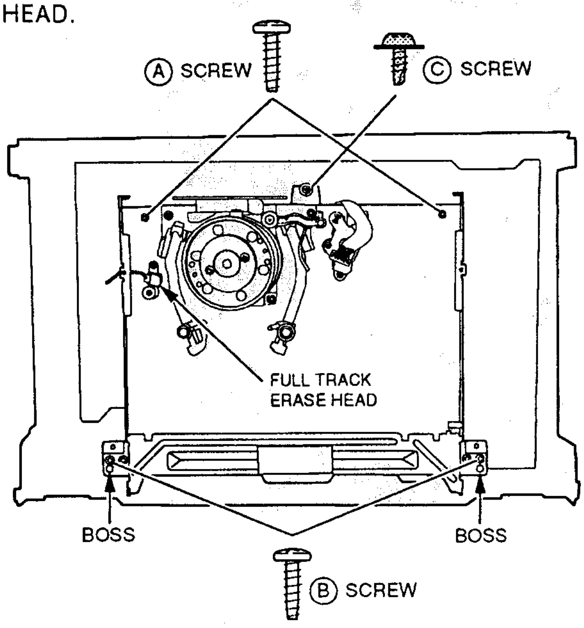


Fig. 3-1

2) Remove the two Ⓐ screws, two Ⓑ screws and the Ⓒ screw as shown in Fig. 3-1.
3) Remove the MECHANISM BLOCK and place a video cassette which is no longer needed or something else that is substitutable (must be made of insulated material) on the MAIN PCB.
4) Place the MECHANISM BLOCK on the tape etc., standing it on end as shown in Fig. 3-2 with care not to damage the flat cables on the PRE AMP PCB.

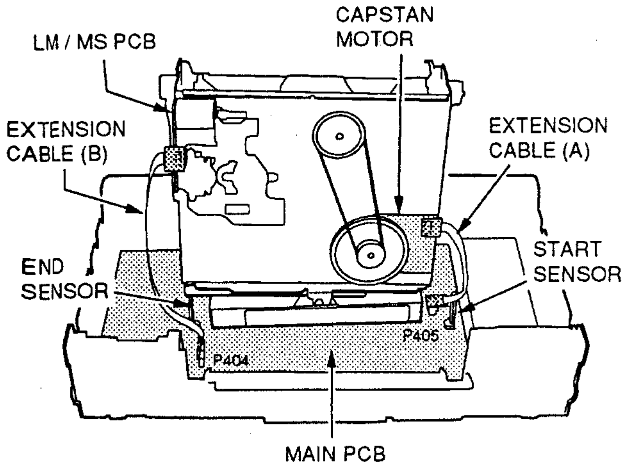


Fig. 3-2

3-3. CONNECTING THE EXTENSION CABLES

1) Connect the two extension cables (which were previously provided as the service jig) between the CAPSTAN MOTOR BLOCK and the P405 connector on the MAIN PCB, the LM/MS PCB and P404 connector on the MAIN PCB.

NOTE : The "front" mark on the extension cable (A)'s PCB must be facing front when connecting.

3-4. TURNING THE POWER ON

1) Place a cover (a ball point pen's cap etc.) on the start sensor, as shown in Fig. 3-2, in order to intercept the light to the sensor. The cover must be black or metal.
2) Engage the test mode (refer to information section, "PRESETS IN THE TEST MODE") and turn the power on.
3) Remove the cover on the start sensor immediately after the cassette tape is inserted in the ejector. So the tape is drawn down automatically.
4) Cover both the start and end sensors at the same time with the covers just before the cassette tape reaches the lower position.
   Although the reel pulse is not generated, normal playback and CUE, REVIEW modes can be operated in this condition.
5) In case you want to change the tape, eject the present tape by pressing the "EJECT" button then remove the cover on the end sensor and repeat steps 3) to 4).

IV. DISASSEMBLY OF THE MAIN COMPONENTS

4-1. REMOVAL OF THE MECHANISM BLOCK

NOTE : Some parts in the mechanism block require complete removal of the mechanism block from the chassis when performing servicing.
Set the loading mechanism to the "EJECT" position by pressing the EJECT button. Then disconnect the AC power plug from the AC socket before proceeding. This sets the loading mechanism to the "reference position".

4-1-1. Removal of the MECHANISM BLOCK.

1) Remove the FRONT PANEL BLOCK (refer to step 1-2 on page 7).
2) Disconnect the P506 and P507 connectors on the PRE AMP PCB.
3) Disconnect the P19 connector on the VIDEO PCB.
4) Disconnect the connector on the FULL TRACK ERASE HEAD.
5) Disconnect the P1 connector on the A/C HEAD PCB.
6) Remove the two Ⓑ, Ⓒ screws and Ⓓ screw as shown in Fig. 4-1.
7) Pull up the MECHANISM BLOCK carefully to detach it from the chassis and the MAIN PCB.

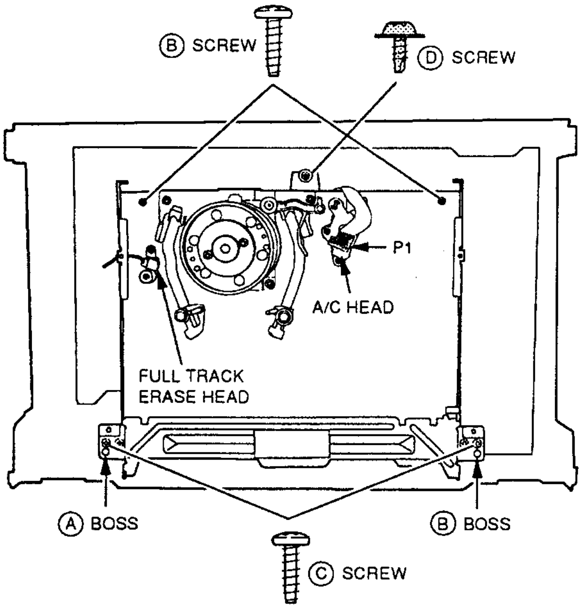


Fig. 4-1

4-1-2. Installation of the MECHANISM BLOCK

1) Carefully align the Ⓐ and Ⓑ bosses on the chassis with their corresponding holes on the MECHANISM BLOCK and tighten the five screws (refer to Fig. 4-1).
2) Proceed in the reverse order for installation.

4-2. REMOVAL OF THE EJECTOR BLOCK

4-2-1. Removal of the CASSETTE LOAD BLOCK

1) Remove the two Ⓐ screws on the UPPER PLATE, as shown in Fig. 4-2 then remove the UPPER PLATE.

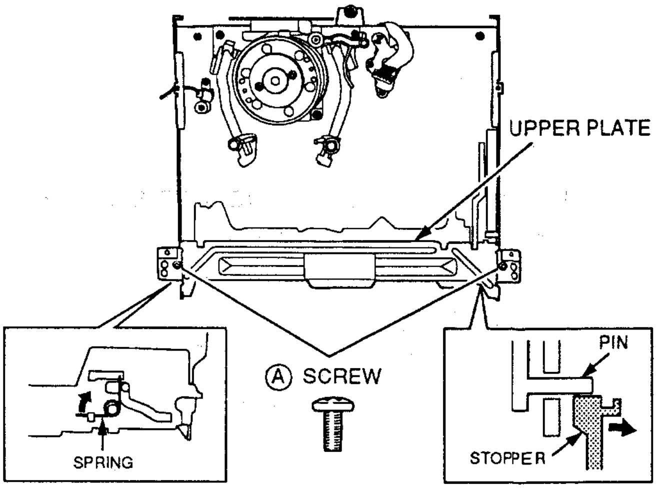


Fig. 4-2

2) Unhook the spring and remove it as shown in Fig. 4-2.
3) While pressing the right STOPPER in the direction of the arrow (refer to Fig. 4-2), gently remove the right side pin of the CASSETTE LOAD BLOCK from the rail by pulling it in the forward direction. Next, remove the left side pin in the same manner, then remove the CASSETTE LOAD BLOCK. To avoid damaging the pins of the CASSETTE LOAD BLK and the rail of the MECHA. FRAME, do not use excessive force when removing the CASSETTE LOAD BLK.

4-2-2. Removal of the LOADING ARM BLK

1) Release the stopper on the right side end of the LOADING ARM BLK's shaft (refer to Fig. 4-3) by pressing the stopper tab with a flat head (—) screwdriver. Then remove the shaft's right end from the bracket.

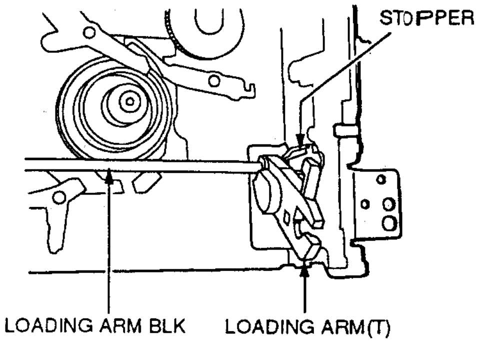


Fig. 4-3

2) Hold the LOADING ARM (T) and then pull out the shaft's left end from the bracket. Take special care when removing it to avoid damaging the pins (refer to Fig. 4-3).

4-2-3. Reassembling

1) Proceed in the reverse order of 4-2-1 to 4-2-2 for installation.

4-3. REMOVAL OF THE MODE DETECT SWITCH

Before proceeding with removal of the MODE DETECT SWITCH, the loading mechanism must be set to the "reference" position. If it has not already been set, use the following procedure to set the reference position.

※ Connect a 6 V battery to the loading motor until both the cam slider gear and mode detect switch reach the reference position (refer to Fig. 4-5).

4-3-1. Removal of the MODE DETECT SWITCH

1) Unsolder the 5 leads of the mode detect switch.

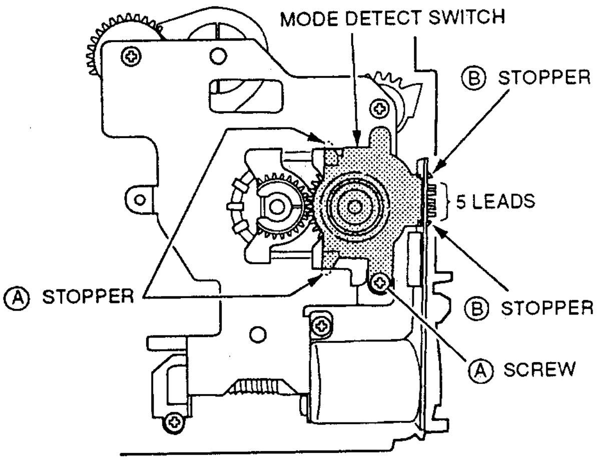


Fig. 4-4

2) Remove the Ⓐ screw.
3) While releasing the two Ⓐ stoppers and two Ⓑ stoppers, carefully remove the MODE DETECT SWITCH by pulling it up and to the left.

4-3-2. Installation of the MODE DETECT SWITCH

1) Install the mode detect switch in the reverse order of 4-3-1. When mounting the mode detect switch, align the mode detect switch's Ⓐ mark with the Ⓑ mark on the cam slider gear as shown in Fig. 4-5.

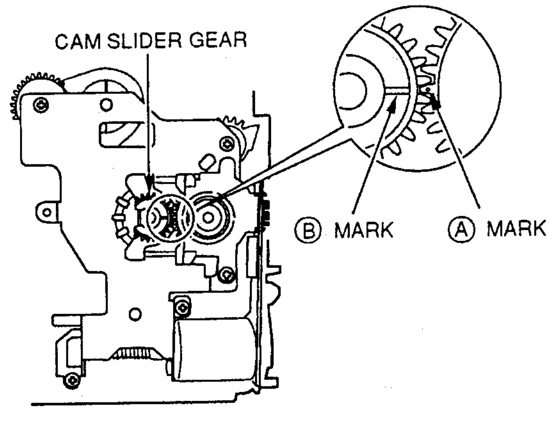


Fig. 4-5

4-4. DISASSEMBLY OF THE LOADING DRIVE BLOCK

※ Set the loading mechanism to the "reference" position. Refer to 4-3, "REMOVAL OF THE MODE DETECT SWITCH" before proceeding.

4-4-1. Removal of the LOADING DRIVE BLOCK

1) Remove the MODE DETECT SWITCH (refer to 4-3-1 "removal of the MODE DETECT SWITCH") if necessary.
2) Remove the Ⓐ, Ⓑ, Ⓒ and Ⓓ screws then remove the LOADING DRIVE BLOCK as shown in Fig. 4-6.

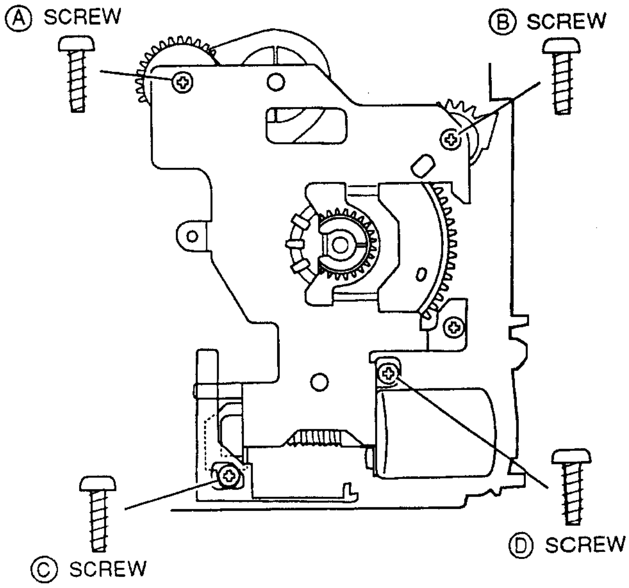


Fig. 4-6

4-4-2. Replacement of the LOADING MOTOR

1) Remove the LOADING DRIVE BLOCK (refer to 4-4-1)
2) Unsolder the two leads of the LOADING MOTOR.
3) Remove the two installation screws.

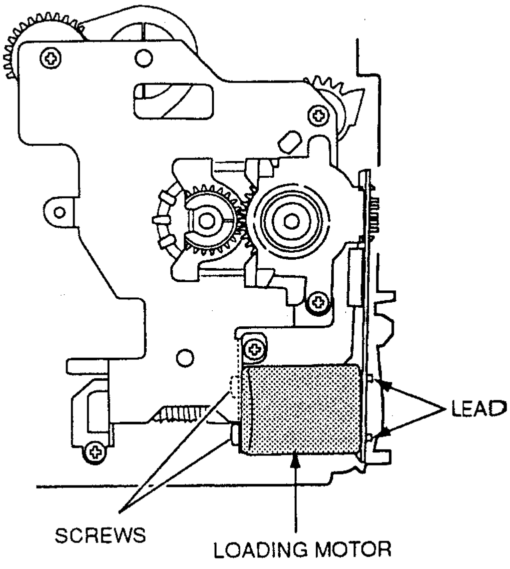


Fig. 4-7

4) Reassemble in the reverse order for installation.

4-5. REASSEMBLY OF THE LOADING MECHANISM BLK

4-5-1. Position of the TOGGLE GEARs (T) and (S)

1) Set the TOGGLE GEARs (T) and (S) to the unloaded position with your fingers. Align the Ⓐ mark on the TOGGLE GEAR (S) with the Ⓐ hole of the TOGGLE GEAR (T) as shown in Fig. 4-8.

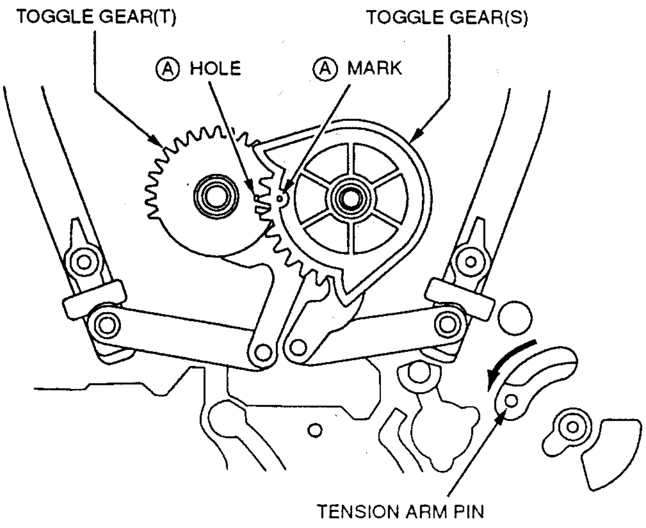

TOGGLE GEAR(T)
TOGGLE GEAR(S)
Ⓐ HOLE
Ⓐ MARK
TENSION ARM PIN

Fig. 4-8

NOTE : When positioning the TOGGLE GEAR (S), the TENSION ARM's pin should be moved in the direction of the arrow before placing the TOGGLE GEAR (S) onto its shaft.

4-5-2. Installation of the CAM SLIDER GEAR & FRONT LOADING GEAR

1) Attach the WORM WHEEL GEAR as shown in Fig. 4-9.

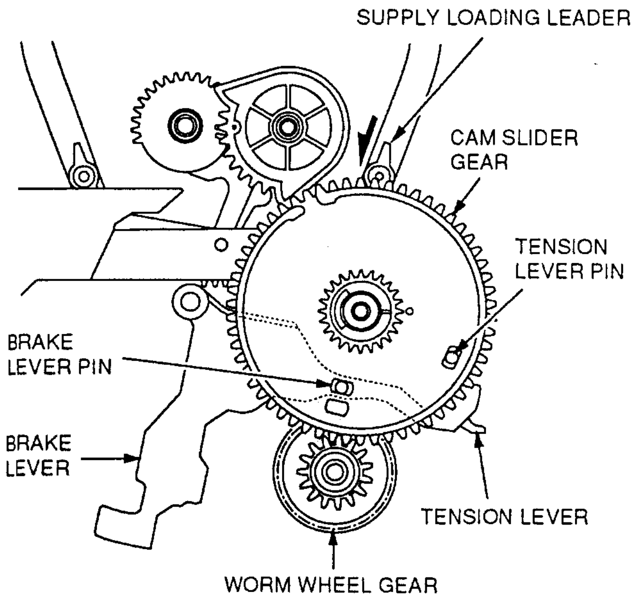

SUPPLY LOADING LEADER
CAM SLIDER GEAR
TENSION LEVER PIN
BRAKE LEVER PIN
BRAKE LEVER
TENSION LEVER
WORM WHEEL GEAR

Fig. 4-9

2) Place the CAM SLIDER GEAR on the shaft and adjust the position of the BRAKE LEVER and TENSION LEVER so that both pins appear through the holes on the CAM SLIDER GEAR as shown in Fig. 4-9. When inserting the CAM SLIDER GEAR onto its shaft, press the SUPPLY LOADING GEAR slightly in the direction of the arrow to make installation easy.
3) Attach the FRONT LOADING GEAR so that the Ⓐ mark on the FRONT LOADING GEAR aligns with the Ⓑ mark on the FRONT LOADING SLIDER and that the Ⓒ mark on the FRONT LOADING GEAR aligns with the Ⓓ mark on the CAM SLIDER GEAR as shown in Fig. 4-10.

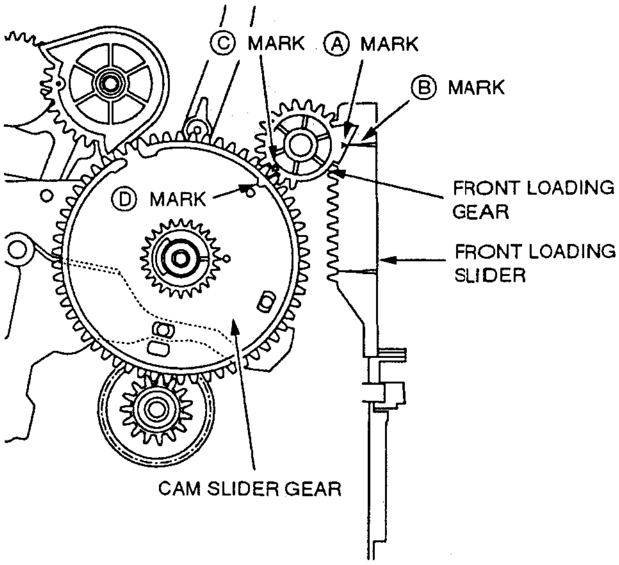

Ⓒ MARK
Ⓐ MARK
Ⓑ MARK
Ⓓ MARK
FRONT LOADING GEAR
FRONT LOADING SLIDER
CAM SLIDER GEAR

Fig. 4-10

4-5-3. Installation of the LOADING BLOCK & MODE DETECT SWITCH

1) Install the LOADING DRIVE BLOCK as shown in Fig. 4-11. Align the Ⓐ mark on the MODE DETECT SWITCH's gear with the Ⓑ mark on the CAM SLIDER GEAR when installing.

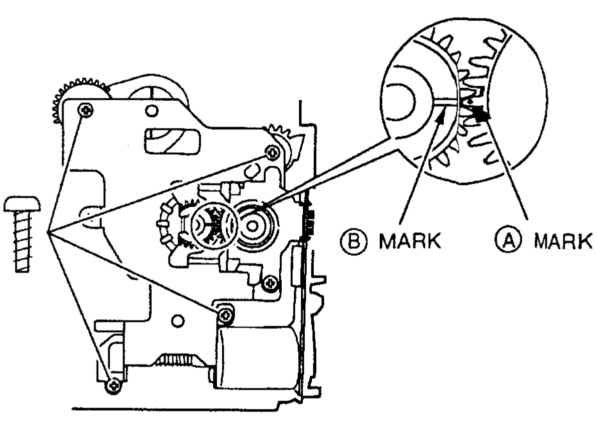


Fig. 4-11

4-6. REPLACEMENT OF THE PINCH ROLLER BLOCK

1) Remove the Ⓐ spring, then remove the PINCH ROLLER ARM BLOCK by turning it in the direction of the arrow and pulling it upward as shown in Fig. 4-12.

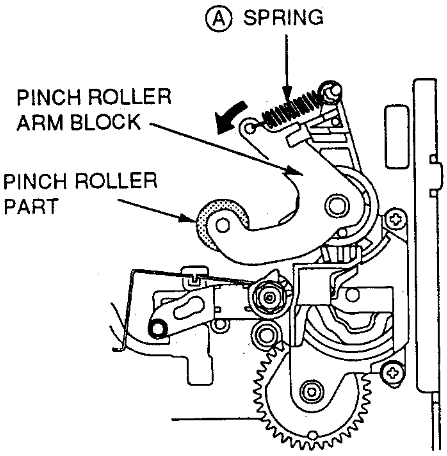

Ⓐ SPRING
PINCH ROLLER ARM BLOCK
PINCH ROLLER PART

Fig. 4-12

2) Reassemble in the reverse order for installation.

4-7. DISASSEMBLY OF THE PINCH LEVER & PINCH HOLDER

4-7-1. Removal of the PINCH LEVER and PINCH HOLDER

1) Remove the two Ⓐ screws then remove the PINCH LEVER and PINCH HOLDER.

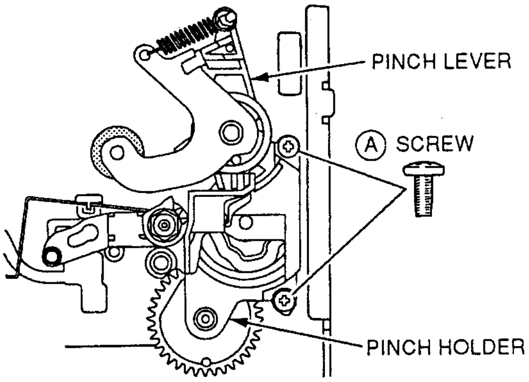

PINCH LEVER
Ⓐ SCREW
PINCH HOLDER

Fig. 4-13

4-7-2. Installation of the PINCH LEVER and PINCH HOLDER

1) Align the Ⓐ hole on the PINCH SLIDER with the Ⓐ mark on the PINCH GEAR through the hole on the chassis as shown in Fig. 4-14.

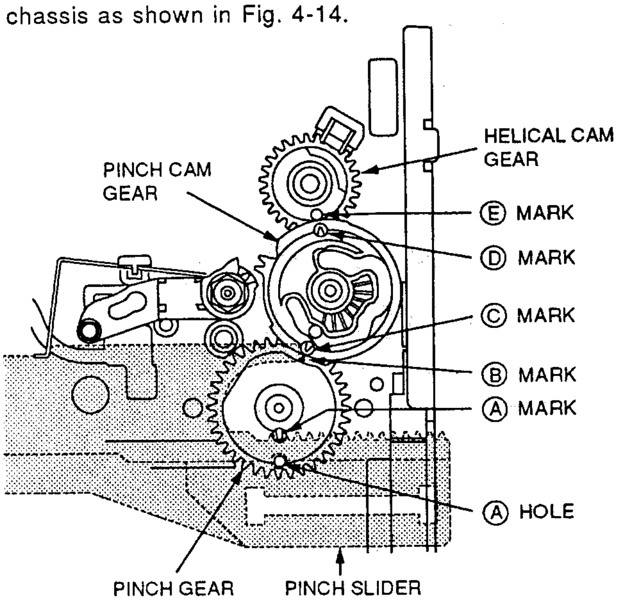

HELICAL CAM GEAR
PINCH CAM GEAR
Ⓔ MARK
Ⓓ MARK
Ⓒ MARK
Ⓑ MARK
Ⓐ MARK
Ⓐ HOLE
PINCH GEAR
PINCH SLIDER

Fig. 4-14

2) Align the Ⓑ mark on the PINCH GEAR with the Ⓒ mark on the PINCH CAM GEAR and the Ⓓ mark on the PINCH CAM GEAR with the Ⓔ mark on the HELICAL CAM GEAR as shown in Fig. 4-14.
3) Install the PINCH LEVER and PINCH HOLDER in the reverse order.

4-8. DRUM MOTOR PC BOARD REPLACEMENT

1) Remove the two Ⓐ screws on the ROTARY PLATE and then remove it. (If the PRE AMP PCB is not removed yet, remove it first before removing the Ⓐ screws.

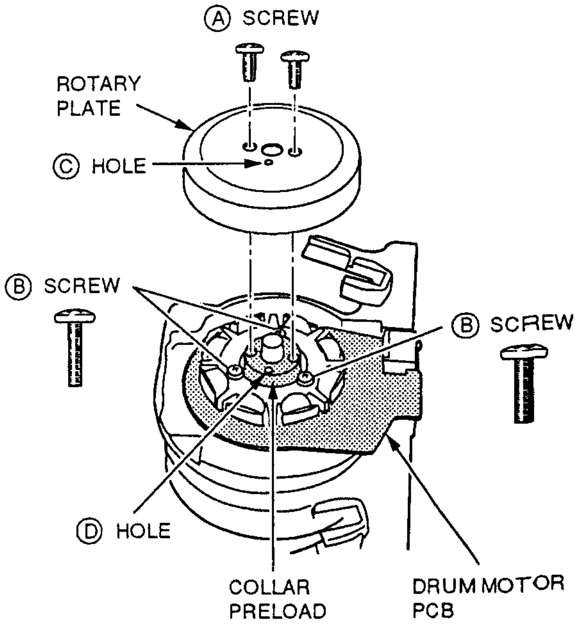

Ⓐ SCREW
ROTARY PLATE
Ⓒ HOLE
Ⓑ SCREW
Ⓑ SCREW
Ⓓ HOLE
COLLAR PRELOAD
DRUM MOTOR PCB

Fig. 4-15

2) Remove the three Ⓑ screws which retain the DRUM MOTOR PCB and replace it.
3) Attach the ROTARY PLATE to the collar preload so that the rotary plate Ⓒ hole and collar preload Ⓓ hole line up.
4) After replacement, PB switching point adjustment (INFORMATION, PRESETS IN THE TEST MODE, #3) is absolutely necessary for the proper performance.

4-9. REPLACEMENT OF THE UPPER DRUM

4-9-1. Removal of the UPPER DRUM

1) Unsolder the twelve relay leads and remove the two upper drum fixing screws as shown in Fig. 4-16.

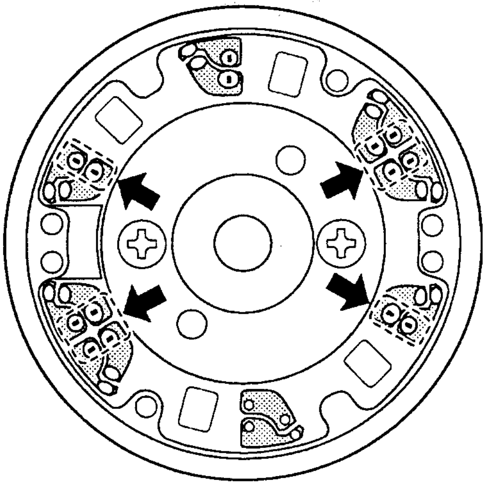


Fig. 4-16

2) Gently lift and remove the UPPER DRUM.

4-9-2. Installation of the UPPER DRUM

1) Attach the UPPER DRUM to the LOWER DRUM ROTOR, so that the upper drum's white mark and lower drum rotor's white mark line up, as shown in Fig. 4-17.

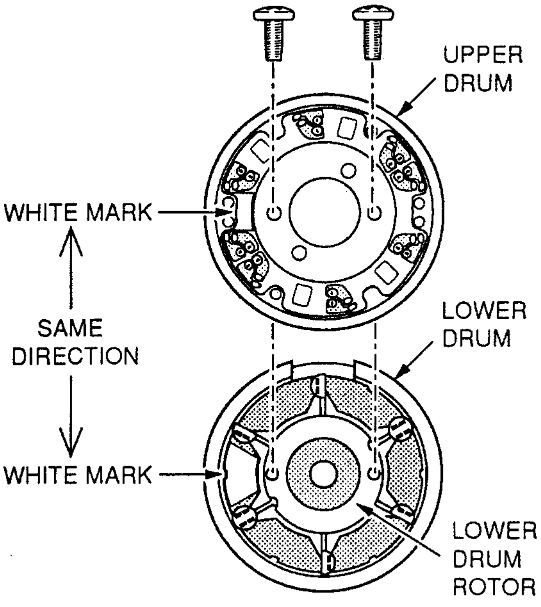


Fig. 4-17

NOTE : Because height precision is required for proper performance, and because head tips are fragile, the following points should be noted when replacing the UPPER DRUM BLOCK.

(a) Do not loosen the set screw on the collar preload.
(b) Before fixing, use alcohol to clean both surfaces where the upper drum and the rotary transformer meet.
(c) If the UPPER DRUM can not be inserted on to the shaft easily during installation, clean the hole in the UPPER DRUM with alcohol and put a little oil on the shaft.
(d) Make sure that the upper drum fixing screw holes, on the rotary transformer part, and the upper drum fixing screw penetration holes match exactly before inserting the fixing screws.
(e) Tighten the two upper drum fixing screws alternately and gradually.

4-9-3. After replacement

After replacement, the following adjustments are necessary for the proper performance.

1) Control head phase adjustment. (MECHANICAL ADJUSTMENT 5-3-2.)
2) PB switching point adjustment. (INFORMATION, PRESETS IN TEST MODE #3)
3) ENV. DET (I-HQ) adjustment. (INFORMATION, PRESETS IN THE TEST MODE #4)

V. MECHANICAL ADJUSTMENT

5-1. BACK TENSION ADJUSTMENT

1) Prepare a video cassette tape which you no longer need. Remove both tape reels and the tape protection cover from the cassette tape. Next, cover the video cassette's left and right detection holes with black adhesive tape.
2) Engage the playback mode using with a tapeless tape.
3) Confirm the distance between the three marks (lines) on the TENSION ARM and the Ⓐ mark on the MECHA. CHASSIS so that the Ⓐ mark aligns with the center line on the TENSION ARM as shown in Fig. 5-1.
4) If the result is not satisfactory, eject the tape and adjust the TENSION ADJUST repeatedly until a satisfactory result is achieved.

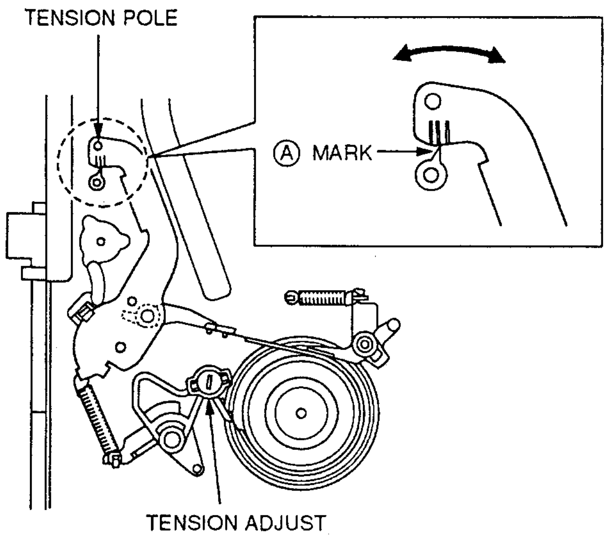


Fig. 5-1

5-2. TAPE TRANSPORT ADJUSTMENTS

In order to simplify the adjustment, two long square holes are made on the mechanism chassis. These holes should be used for their reflection image on the tape. If the shape of the reflection image on the tape is straight and not distorted, this means correct tape transport adjustment is achieved.

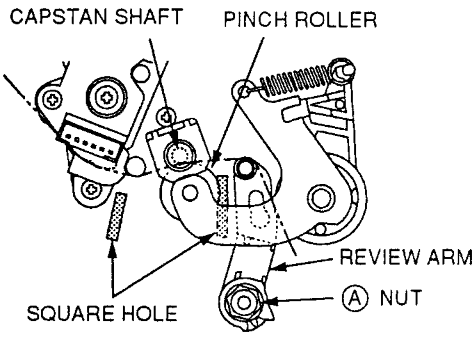


Fig. 5-2

NOTE : The following adjustments are required only when an irregularity is found, since these adjustments are precisely set at the factory.

5-2-1. Tape curl adjustment at the TAKE-UP TAPE GUIDE

1) Play back a recorded tape which is no longer needed.
2) Turn the Ⓐ screw on the A/C HEAD BLK, until the edge of the tape barely touches the lower part of the TAKE UP TAPE GUIDE, without any curl or wrinkle.

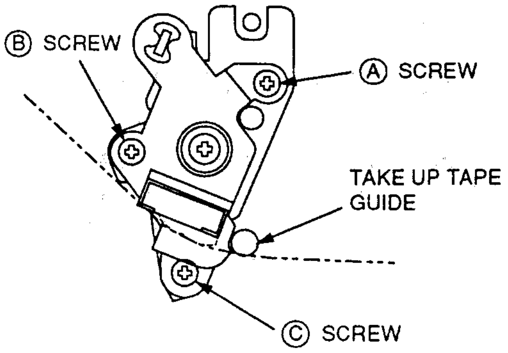
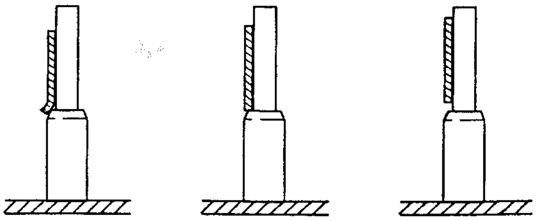


Fig. 5-3

(TAKE-UP TAPE GUIDE)



(a) INCORRECT (b) CORRECT (c) INCORRECT

Fig. 5-4

3) Observe the reflection image of the square hole on the tape. If the shape is incorrect, proceed adjustment until satisfactory result is obtained.

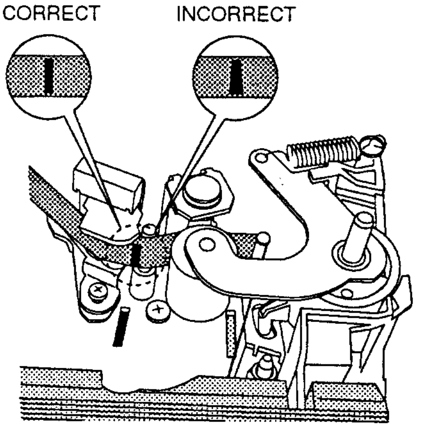
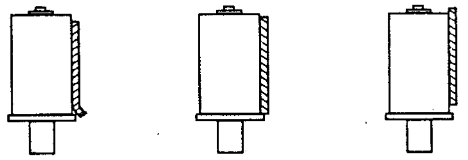


Fig. 5-5

4) Once the Ⓐ screw is adjusted, A/C HEAD height and azimuth adjustment is required. (Refer to 5-3. A/C HEAD POSITION ADJUSTMENT.)

5-2-2. Tape curl adjustment at the SUPPLY TAPE GUIDE

Confirm that the lower edge of the tape barely touches the lower part of the SUPPLY TAPE GUIDE, without any curl or wrinkle as shown in Fig. 5-6. If necessary, bend the neck part of the TENSION ARM in the Ⓐ or Ⓑ direction slightly until a satisfactory result is achieved.



(a) INCORRECT (b) CORRECT (c) INCORRECT

Fig. 5-6

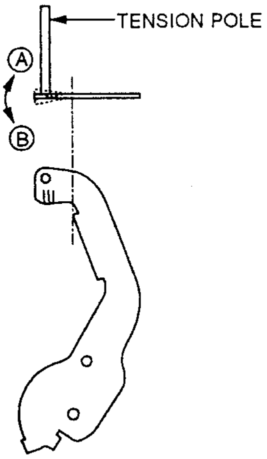


Fig. 5-7

5-2-3. REVIEW ARM height adjustment

1) Play back an E-180 (or TF-526HH test tape) tape.
2) Turn the REVIEW ARM height Ⓐ nut in the clockwise direction until the reflection image of the long square hole on the tape is distorted. (Refer to Fig. 5-2 and Fig. 5-8.)

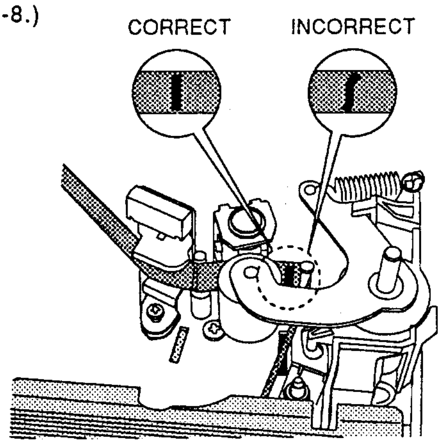


Fig. 5-8

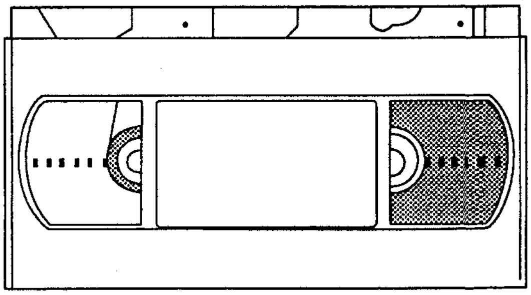
3) Turn the Ⓐ nut in the counter-clockwise direction little by little until the reflection image on the tape is satisfactorily shaped. Confirm that the edge of the tape barely touches the lower part of the TAKE-UP TAPE GUIDE without any curl or wrinkle among the TAKE-UP TAPE GUIDE, CAPSTAN SHAFT and REVIEW ARM.

5-2-4. A/C HEAD height adjustment

1) Play back test tape TF-526HH (Part No. : AT-751788).
2) Connect an oscilloscope to the AUDIO OUT terminal on the rear panel .
3) Slightly turn the Ⓒ screw so that the output level is between 30 ~ 80 mVp-p (refer to Fig. 5-3.).
4) Slightly turn the Ⓐ screw until the tape edge barely touches the lower part of the TAKE-UP TAPE GUIDE without any curl or wrinkle as shown in Fig. 5-4.
5) Confirm whether the output level is still between 30 ~ 80 mVp-p or not. If the result is not satisfactory, repeat steps 3) to 5).
6) Check the reflection image on the tape again. If the shape of the image is not satisfactorily, repeat the adjustment from 5-2-3 to 5-2-4 until satisfactory result is obtained.

5-2-5. CUE/REVIEW check

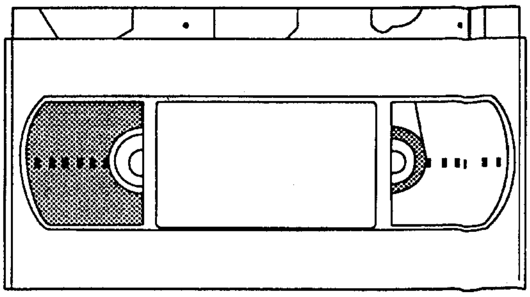
1) Play back the last part of an E-240 tape and set the unit to the REVIEW mode by pressing the REW button. (Remove the tape protection cover to make the adjustment easier.)



(REVIEW mode)

Fig. 5-9

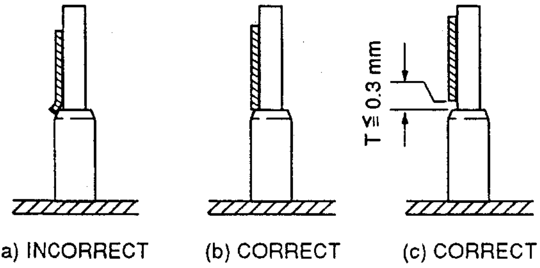
2) Confirm there is no curl or wrinkle among the TAKE-UP TAPE GUIDE, CAPSTAN SHAFT and REVIEW ARM. Also, the reflection image of the long square hole on the tape should be satisfactorily shaped. If the result is not satisfactory, repeat the adjustment from 5-2-3 to 5-2-4.
3) Play back the beginning part of an E-240 tape and this time set the unit to the CUE mode by pressing the F. FWD button.



(CUE mode)

Fig. 5-10

4) Confirm there is no curl or wrinkle near the REVIEW ARM's guide. If curl or wrinkle of the tape occurs, slightly turn the Ⓐ nut (Shown in Fig. 5-2) until it disappears.
5) Set the unit to the REVIEW mode again. Then confirm that there is no curl or wrinkle near the TAKE-UP TAPE GUIDE. (A small gap may appear after this adjustment, but this is allowable.)



(a) INCORRECT (b) CORRECT (c) CORRECT

Fig. 5-11

NOTE :

1. If the results are not satisfactory, repeat steps 2) to 5).
2. Always play an undamaged tape to obtain satisfactory adjustment.
3. Because an E-240 tape can be damaged easily, due of its thinness, a pre-adjustment with an E-180 tape is recommended.

5-2-6. LOADING LEADER height adjustments

1) Slightly loosen the set screw at the lower part of the LOADING LEADERs (L), (R) so that the LOADING LEADER can be adjusted with reasonable tightness. (Refer to Fig. 5-12.)

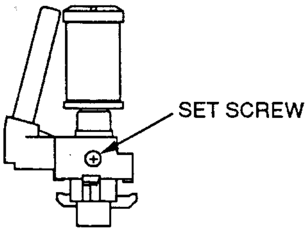


Fig. 5-12

2) Play back the reference tape TF-530RFS (Part No. : AT-751775).
3) Connect an oscilloscope's CH-1 to the TP501 (ENVE) on the PRE AMP PCB and CH-2 to the TP502 (V-SWP) for triggering.
4) Turn the LOADING LEADER heads with a flat head(–) screw driver to obtain a flat RF envelope as the ideal envelope, as shown in Fig. 5-13.
5) After adjustment is completed, tighten the loading leader set screws.

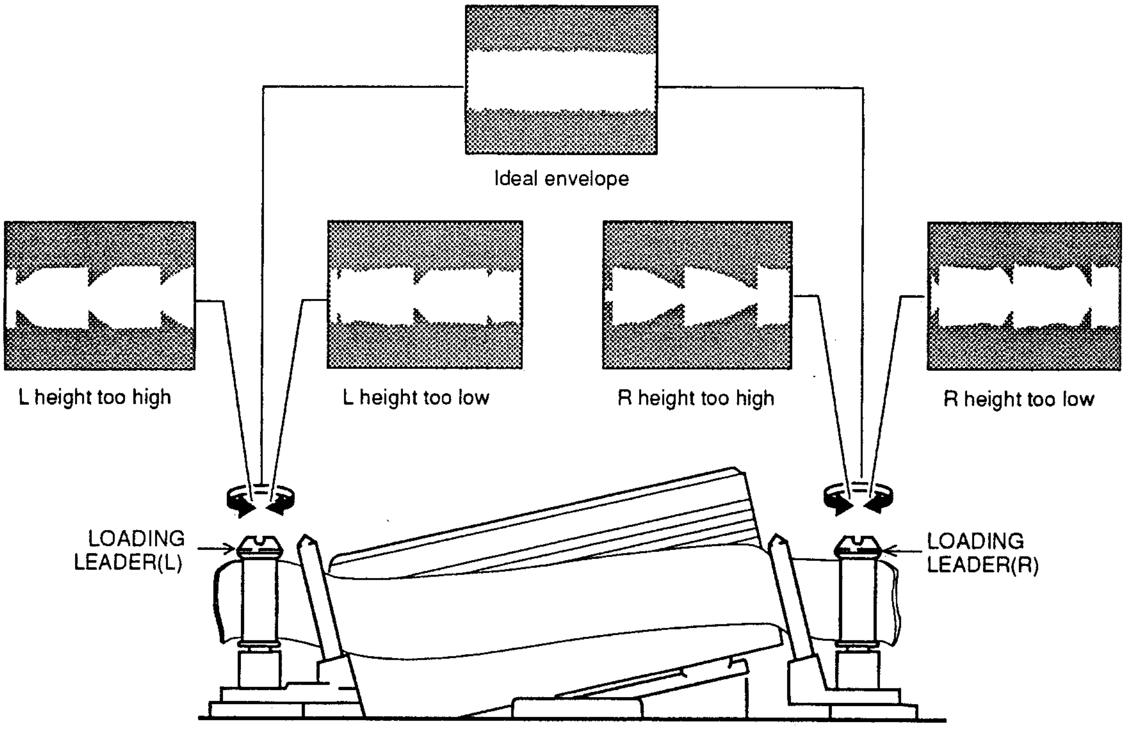


Fig. 5-13

5-3. A/C HEAD POSITION ADJUSTMENT

※ Refer to Fig. 5-3 for the adjustment points.

5-3-1. Azimuth adjustment

1) Connect an AC voltmeter or an oscilloscope to the AUDIO OUT terminal on the rear panel.
2) Play back the reference tape TF-530RFS (Part No. : AT-751775).
3) Press the "AUDIO MONITOR" button on the remote control repeatedly and choose the linear (normal) audio playback.
4) Adjust the Ⓑ screw to obtain the maximum audio output.

5-3-2. Phase adjustment

1) Connect an oscilloscope's CH-1 to the TP501 (ENVE) on the PRE AMP PCB and CH-2 to the TP502 (V-SWP) for triggering.
2) Play back reference tape TF-530RFS (AT-751775).
3) Press the ">" or "<" TRACKING button on the remote control until the "X" mark can be seen in the center position of the tracking range on the TV screen as shown in Fig. 5-14.

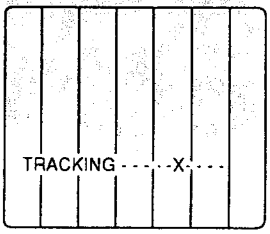


Fig. 5-14

4) Loosen the Ⓓ screw slightly so that the A/C HEAD BASE can be moved with reasonable tightness.

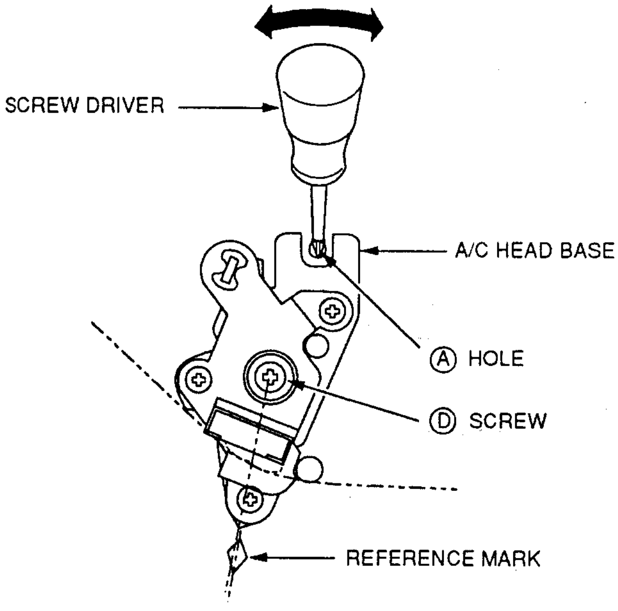


Fig. 5-15

5) Insert a philips type screwdriver into the A/C HEAD BASE and Ⓐ hole as shown in Fig. 5-15
6) Move the A/C HEAD BASE by moving a screwdriver in the direction of the arrow as shown in Fig. 5-15 to obtain the maximum RF output, then tighten the Ⓓ screw. Although there are a few points at which the RF output becomes maximum, the pointed head of the A/C HEAD BASE must be positioned as close to the reference mark as possible.
7) Eject the tape and then re-insert it and play it back again. Confirm that the RF output is maximum after the auto tracking control has been activated. Next, press the "<" or ">" button on the remote control alternately and confirm that the RF output is maximum at the tracking centre position. If the result is not satisfactory, repeat the adjustment steps 3) to 6). (This adjustment is very important as this affects the interchangeability of the recorded tapes.)

VI. ELECTRICAL ADJUSTMENT

Precautionary items prior to adjustments
1. The colour bar generator output should be 1.0 Vp-p.
2. The video output terminal should be terminated with 75 ohms (connect dummy load or 75 ohms input TV).

The following test tape is required.

Test tape	Parts No.
TF-532CBS	AT-751360

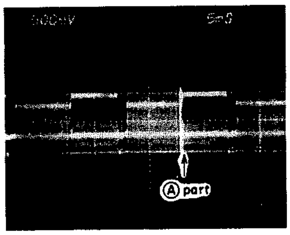
STEP	ADJUSTMENT ITEM
	1. MODE and INPUT SIGNAL/TEST TAPE 2. TEST POINT and ADJ part 3. REMARKS (•) & RESULT (∗)

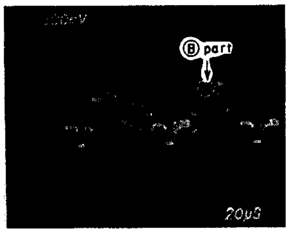
ADJ. part →

Test point - - →

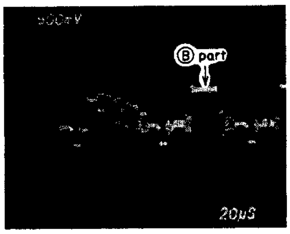
2 | CDR (G757EOG-D & G800 series only)

1. "PB",test tape TF-532CBS
2. VIDEO OUT, TP502 (SWP) & VR102 (CDR GAIN), VR103 (CDR PHASE)
3. • Connect CH-1 of an oscilloscope to VIDEO OUT and CH-2 to TP502 on the PRE AMP PCB.
   • Set the oscilloscope to delayed scanning mode and observe the A part (line non-correlated part).
   ∗ After the auto tracking has been activated, adjust VR103 and VR102 alternately so that the non-correlated chroma signal (B part) is at its minimum level. (VR103 → VR102 → VR103)

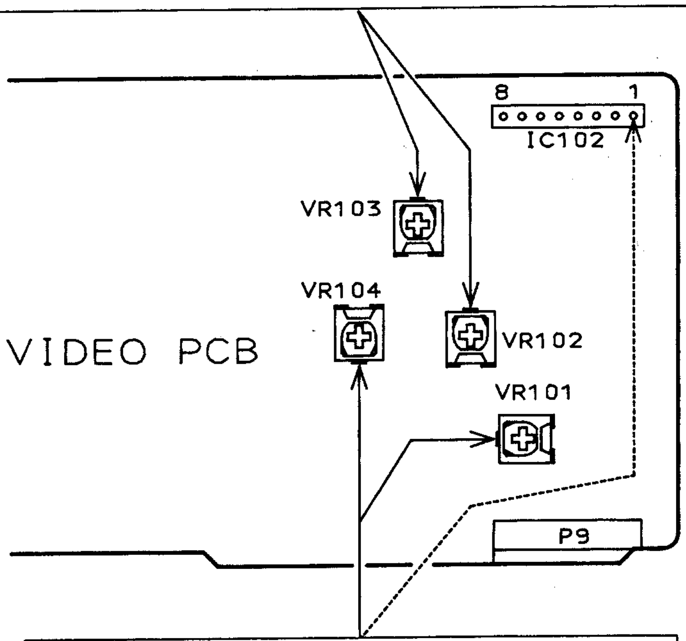




INCORRECT



CORRECT



1 | Y/C COMB (G757EOG-D & G800 series only)

1. "E-E", PAL colour bar signal
2. IC102 ① pin & VR101 (COMB PHASE), VR104 (COMB GAIN)
3. • Connect an oscilloscope to IC102 ① pin on the VIDEO PCB.
   ∗ Adjust VR101 and VR104 alternately so that DC level is maximum. (VR101 → VR104 → VR101)

VII. PARTS LIST

ATTENTION

1. When placing an order for parts, be sure to list the Part No., Model No. and the description of earch part. Otherwise, the non-delivery of the part or the delivery of a wrong part may result.
2. Please make sure that Part No. is correct when ordering. If not, a part different from the one you ordered may be delivered.
3. Since the parts shown in Parts List or Preliminary Service Manual may have been the subject of changes, please use this Parts List for all future reference.

HOW TO USE THIS PARTS LIST

1. This Parts List lists those parts which are considered necessary for repairs. Other common parts, such as resistors and capacitors, are listed in the "Common List for Service Parts" from which these parts should be selected and stocked.
2. The Recommended Spare Parts List shows those parts in the Parts List which are considered particularly important for service.
3. Parts not shown in the Parts List and "Common List for Service Parts" will not in principle be supplied.
4. How to read the Parts List.

a) Mechanism Block

2.HEAD BASE BLOCK

Ref. No.	Part. No.	Description
1	BH-T2023A320A	HEAD BASE BLOCK
2	HP-H2206A010A	HEAD R/P PR4-8FU C
3	ZS-477876	PAN20×03STL CMT
4	ZS-536488	BID20×08STL CMT
5	ZG-402895	SP CS ANGLE ADJUST

SP (Service Parts) Classification

This number corresponds with the individual parts index number in the figure.

b) PC Board

2.MAIN PC BOARD

Ref. No.	Part. No.	Description
IC1	EI-324536	IC HD14049BP
IC2	EI-336801	IC MB8841-564M
C1A	EC-338399	C MMY V 223M 250AC [U,E,B,S]
C1B	EC-350949	C MMY V 223M 250DC [J]
C1C	EC-338397	C MMY V 223M 125AC [C, A]
X1	EI-318384	OSC X'TAL NC-18C

Symbols for primary destination

[A] : AAL (U.S.A)	[S] : SAA (Australia)
[B] : BEAB (England)	[U] : U/T (Universal Area)
[C] : CSA (Canada)	
[E] : CEE (Europe)	[V] : VDE (Germany)
[J] : JPN (Japan)	[Y] : Custom

SP (Service Parts) Classification

These reference symbols correspond with component symbols in the Schematic Diagrams.

The available PC Board Blocks are listed separately.

5. When Part No. is known, Parts Index at end of Parts List can be used to locate where that part is shown in Parts List by its Reference No. listed at right of Part No.

WARNING

⚠ INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURE'S RECOMMENDED PARTS.

AVERTISSEMENT

⚠ IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÉCES RECOMMANDEES PAR LÉ FABRICANT.

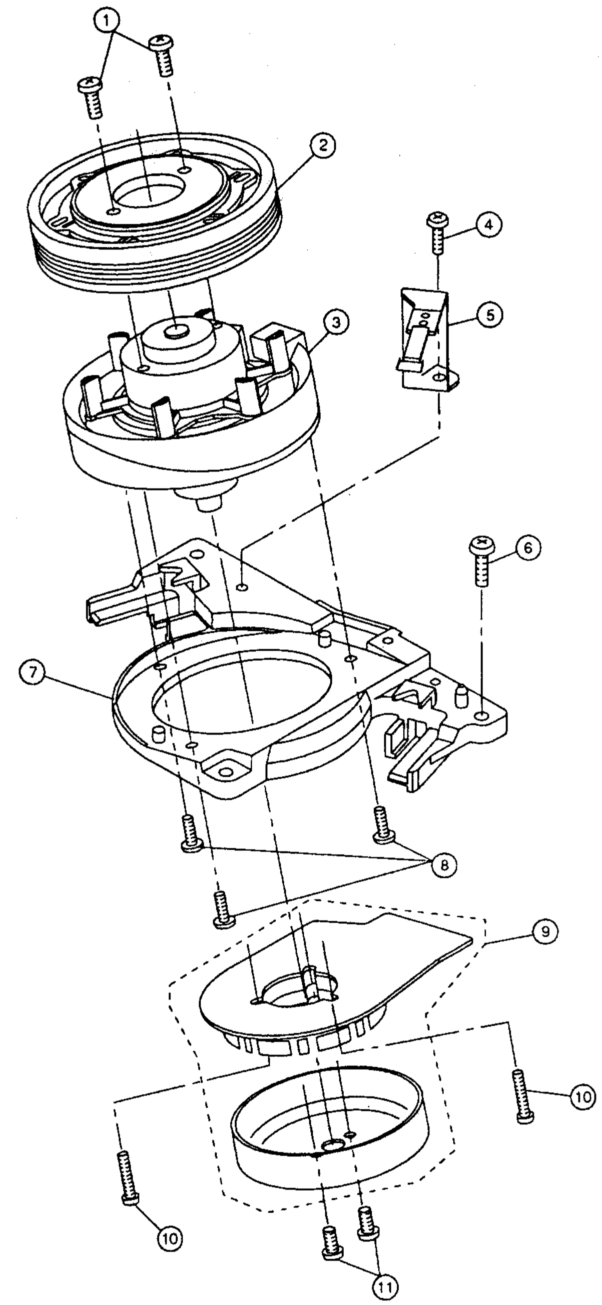
1. RECOMMENDED SPARE PARTS

We suggest you to stock the following Recommended Spare Part items listed below since they can cover most of the routine service.

Ref. No.	Part No.	Description
1	BB-428300N	MECHA DECK GXS
2	BL-424913N06	ARM LOADING BLK G204EA
3	BL-428114N1	ARM PINCH ROLLER(2)PART
4	BM-433066N1	MOTOR E20XL16
5	BM-421746N1	MOTOR PART
6	BM-428250N3	MOTOR SCV-0604A
7	⚠ BT-434175N	TRANS POW V1230-M
8	BV-424919N09	CASSETTE LOAD BLK G204EA
9	BV-424914N03	LEADER(S) BLK G204EA
10	BV-424915N04	LEADER(T) BLK G204EA
11	BV-434180N	RF CONVER. YAA21-1108G G/K EDG [EDG]
12	BV-387610N	RF CONVERTER YAA21-0809G EA [EA]
13	BV-429839N	RF CONVERTER YAA21-1045H G EO [EOH,EOG]
14	BV-429837N	RF CONVERTER YAA21-1046H I EK [EK]
15	BV-V1182D410D	TL LOWER DRUM BLK G705EA-D
16	BV-V1182D420E	TL UPPER DRUM BLK G705EA-D
17	ED-390012N	D LED GL4800 INFRARED
18	ED-422251N	D LED GL528VTB INFRARED T05
19	ED-426201N	D SCHOTTKY ERC81-004L7 S12
20	ED-426202N	D SCHOTTKY ERC84-009L9 S15
21	ED-401099N	D SCHOTTKY MA719 T26 40/0.5A [G858EOG]
22	ED-428162N	D SCHOTTKY 1S30-E T26 [G740,G745,G746,G755,G757]
23	ED-427506N	D SILI.ERA22-10 T26 1000/0.5A
24	ED-307573N	D SILICON H 1SS131T-77 T26
25	ED-428420N	D SILICON RL103F-N02T05 200/1A
26	ED-403280N	D SILICON 1N4002N02 T05 100/1A
27	⚠ ED-418622N	D SILICON 1N4006N02 T05 800/1A
28	ED-427173N	D VARACTOR MA840-B(TA) T26
29	ED-412096J	D ZENER H HZS11A2 T26
30	ED-404328N	D ZENER H HZS12C3 T26
31	ED-405329N	D ZENER H HZS3B2 T26
32	ED-400817N	D ZENER H HZS5C3 T26
33	ED-373192N	D ZENER H HZS9A1L T26 [EDG,EOH,EOG]
34	ED-397614N	D ZENER H HZS9A3L T26 [G757,G855,G856,G858]
35	ED-425540N	D ZENER H MTZJ18C T26
36	ED-422420J	D ZENER H MTZJ20C T26
37	ED-422519N	D ZENER H MTZJ4.3B T26
38	ED-405529N	D ZENER H MTZJ5.6C T26
39	ED-427218N	D ZENER H MTZJ6.2C T26
40	ED-427719N	D ZENER H MTZJ9.1A T26
41	EE-428336N	TV TUNER TEKB1-014A EK [G745/G855EK]
42	EE-432827N	TV TUNER TEKE1-163A EO [G746EK]
43	EE-432823N	TV TUNER TEKE4-179A EOG [EDG,EOH,EOG]
44	EE-419189N	TV TUNER VTSH6AZ01 EA [EA]
45	⚠ EF-394702N	FUSE 218 TIME 250V 2.00A
46	EI-389644N	IC BA403
47	EI-386393N	IC BA7605N
48	EI-385995N	IC BA7755A
49	EI-422365J	IC CXA1645M
50	EI-328593N	IC HD14053BP [EOH-DN]
51	EI-433037N	IC LA7256
52	EI-428406N	IC LA7356M-TRM FPR T12E [EDG]
53	EI-433036N	IC LA7416
54	EI-432781N	IC LA7447BM
55	EI-432759N	IC LA7577N
56	EI-390053N	IC LA7910 [EXCEPT G745/G855EK]
57	EI-403233N	IC LB1641
58	EI-433063N	IC LC74763-9143 [EXCEPT EOG-VD]
59	EI-432780N	IC LC89975M-TE-R FPR T16E
60	EI-389471N	IC L5631 T05
61	EI-422375J	IC MC14013BFR2 FPFR2T32P
62	EI-403469N	IC MM1068XS
63	EI-414859N	IC MM1112XS [G855EK]
64	EI-416646N	IC MM1113XS
65	EI-433209N1	IC M37774M7H110GP NXHSYPS2 [EA,EDG,EOH]
66	EI-433210N1	IC M37774M7H111GP NXHSYPV2 [EK]
67	EI-433211N1	IC M37774M7H112GP NXHSYGS2 [G757EOG]
68	EI-434192N	IC M37774M7H115GP NHXSGTS1 [G858EOG]
69	EI-422218N	IC M51494L [G757,G855,G856,G858]
70	EI-368809N	IC M51496P
71	EI-428194J	IC NJM4558DD
72	EI-403306N	IC NJM4558L [G757,G855,G856,G858]
73	EI-353750N	IC NJM4558MB T1 T1T32P
74	EI-416620N	IC NJM7809FA
75	EI-428401N	IC PST9130-T T05
76	EI-433060J	IC SAA7283GP
77	EI-433029N	IC SDA5273S
78	EI-428403N	IC SDA5649X FP T24E [EXCEPT EA,G740EOH,G755EOH[S], G858EOG]
79	EI-433042N	IC STV6400
80	EI-433061N	IC TA1225N [EOG]
81	EI-416611J	IC TDA8417
82	EI-433062J	IC TDA9614H
83	EI-433239N1	IC UPD78042FGF-018-3B9NXHDSPL2 [G740,G745,G746,G755,G757]
84	EI-433240N1	IC UPD78042FGF-019-3B9NXHDSPH2 [G855,G856]
85	EI-434191N	IC UPD78046HGF-013-3B9NXHDSPT1 [G858]
86	EI-422442N	IC 24LC02BT/SN FP T12E [EXCEPT G745EA/EOH,G755EOH[S]]
87	EI-431275N	IC 24LC04BT/SN FP T12E [G745EA/EOH,G755EOH[S]]
88	EI-418761N	IC 24LC08BT/SN FP T12E [EOG-VD]
89	EI-403467J	OSC CE CSB500F40 15.680KHZ
90	EI-368829N	OSC CE CSB512P
91	EI-413047N	OSC CE CST5.00MGW 5.000MHZ
92	EI-416872N	OSC X'TAL APS1004A 17.734475 MH [EXCEPT EOG-VD]
93	EI-425240N	OSC X'TAL APS1011A 16.000MHZ
94	EI-433914N	OSC X'TAL APS1026 8.192MHZ
95	EI-425185N	OSC X'TAL ASP1006 10.000MHZ
96	EI-431323N	OSC X'TAL C-002RX 32.768KHZ
97	EI-405660N	OSC X'TAL HC-49U 4.433619MHZ
98	EM-429960N	IND FL FIP10CCM7A CHARACTER
99	EM-432999N	IND FL FV720G CHARACTER
100	⚠ ER-307565N	R FUSE H S10 ERD2FC 1/4W 6R8J
101	⚠ ER-408829N	R FUSE V T05 RF25SCVTP 1/4W R11K
102	⚠ ER-418648N	R FUSE V T05 RF25SCVTP 1/4W R24K
103	⚠ ER-400729N	R FUSE V T05 RF25SCVTP 1/4W R47K
104	⚠ ER-428204N	R FUSE V T05RF25SVTP 1/4W 220J
105	ES-426275N	SW MICRO ESE11SV1A
106	ES-419326N1	SW MODE SELECT MMS00202ZMB0
107	ES-396610N	SW TACT SOR-122HS T05
108	ET-428361N	DETECTOR GP1U281X
109	ET-422113N	PHOTO COUPLER PS2561-1-V
110	ET-429898N	TR C.DTA114EKA T146T08E
111	ET-429896N	TR C.DTA144EKA T146T08E
112	ET-429899N	TR C.DTA144TKA T146T08E

Ref. No.	Part No.	Description
113	ET-430868N	TR C.DTC114EKA T146T08E
114	ET-433072N	TR C.DTC114TKA T146T08E [EXCEPT EDG]
115	ET-428400N	TR C.DTC143EKA T146T08E
116	ET-429897N	TR C.DTC144EKA T146T08E [EA]
117	ET-433071N	TR C.DTC144TKA T146T08E [EDG,EOH,EOG]
118	ET-421984N	TR C.UN211D TXT08E
119	ET-421999N	TR C.UN221D TXT08E
120	ET-421990N	TR C.UN2211 TXT08E [EOH,EOG]
121	ET-428248N	TR C.2SA1037AK R,S T146T08E
122	ET-416932N	TR C.2SB709A R,S TXT08E [EA]
123	ET-428249N	TR C.2SC2412K R,S T146T08E
124	ET-432740N	TR C.2SC2480 T,S TXT08E
125	ET-422464N	TR C.2SD2118 Q,R,S FPTLT16E
126	ET-416933N	TR C.2SD601A R,S TXT08E
127	ET-364082N	TR DTA114TS T05
128	ET-415140N	TR DTA115TS T05
129	ET-386784N	TR DTA143TS T05
130	ET-364291N	TR DTA144ES T05 [EK,EOH-N]
131	ET-364023N	TR DTC114ES T05
132	ET-364645N	TR DTC143ES T05
133	ET-368786N	TR DTC143ZS T05
134	ET-361961N	TR DTC144ES T05
135	ET-373201N	TR DTC144TS T05
136	ET-390010N	TR PHOTO PT4800
137	ET-390009N	TR PHOTO PT493F
138	ET-392746N1	TR 2SA933AS R,S T05
139	ET-404498N	TR 2SB1306 Q,R T05
140	ET-392663N	TR 2SC1740S R,S T05
141	ET-414816N	TR 2SC2668 Y T05
142	ET-428371N	TR 2SC4908
143	ET-422129N	TR 2SD2132 U,V T05
144	ET-416697N	TR 2SD2396 J,K
145	EV-433003N	VR ROTA.RK09K1130L20 1BM203FL.
146	EW-433082N	CORD FFC BD P1.25 L100 11P
147	EW-432987N	CORD FFC BD P1.25 L100 9P
148	EW-432984N	CORD FFC BD P1.25 L130 7P [G745EA,G740/G745EOH,G755EOH[S], G757EOG]
149	EW-432986N	CORD FFC BD P1.25 L130 9P [G745/G746EK,G755EOH[E]]
150	EW-422531N	CORD FFC BD P1.25 L150 16P [G740,G745,G746,G755,G757]
151	EW-422530J	CORD FFC BD P1.25 L150 18P [G855,G856,G858]
152	EW-433084N	CORD FFC ES P1.25 L70 6P
153	HE-422168N	HEAD E HVFHF0040A
154	HR-416732N	HEAD COMBO HVMZA1201A
155	MB-420053N	BELT CAPSTAN
156	MI-420023N3	ARM IDLER PART
157	MI-420038N4	DISK CLUTCH PART
158	MI-420037N	DISK COUPLING
159	ML-426550N	ARM F/R COUPLING
160	ML-420170N	ARM LID OPENER
161	ML-420097N3	ARM LOADING BRAKE
162	ML-420068N2	ARM REVIEW PART
163	ML-420102N1	ARM T.U BRAKE
164	ML-420006N2	ARM TENSION PART
165	ML-428102N1	LEVER CAM PINCH
166	ML-420099N2	LEVER M BRAKE
167	ML-420133N2	LEVER REC-S
168	ML-420416N3	LEVER TENSION(1)PART
169	ML-420086N1	MAIN BRAKE(S)PART
170	ML-420089N1	MAIN BRAKE(T)PART
171	ML-420092N1	REVIEW BRAKE PART
172	ML-420110N4	SLIDER PINCH
173	ML-420100N3	SLIDER TRIGGER
174	ML-428108N	STILL BRAKE PART
175	MR-420109N	HOLDER THRUST WORM
176	MR-420106N	PULLEY TRIGGER
177	MR-420022N	ROLLER IMPEDANCE
178	MT-424632N2	DISK(2) PART
179	MZ-420064N1	GEAR CAM HELICAL
180	MZ-420122N1	GEAR CAM MAIN
181	MZ-428103N	GEAR CAM R-204
182	MZ-420035N	GEAR COUPLING
183	MZ-420124N3	GEAR FRONT LOADING
184	MZ-420067N	GEAR PINCH
185	MZ-424917N03	GEAR TOGGLE (S) BLK G204EA
186	MZ-424916N04	GEAR TOGGLE (T) BLK G204EA
187	MZ-420123N1	GEAR WORM WHEEL
188	MZ-420132N3	PRISM LED
189	MZ-420016N2	TENSION BAND PART
190	ZG-420036N	SP PUSH COUPLING
191	ZG-420105N	SP TRIGGER

HEAD DRUM BLOCK



2. HEAD DRUM BLOCK

Ref. No.	Part No.	Description
1	ZS-321298N	BID30X08STL CMT (SG)
2	BV-V1182D420E	TL UPPER DRUM BLK G705EA-D
3	BV-V1182D410D	TL LOWER DRUM BLK G705EA-D
4	ZS-358936N	ST BID30X06STL CMT (SG)
5	VT-418700N1	EARTH BRUSH (2) PART AG
6	ZS-336714N	ST BID30X12STL CMT (SG)
7	MA-429081N1	CHASSIS DRUM(A) (SG)
8	ZS-563444N	BID26X08STL CMT (SG)
9	BM-433066N1	MOTOR E20XL16
10	ZS-467796N	PAN26X12STL CMT (SG)
11	ZS-379350N	PAN30X06STL CMT (SG)

NOTE :
Parts will not be supplied if they are not listed in the parts list, even if they appear on the assembling illustrations with reference No.

3. MECHANISM (1) BLOCK

Ref. No.	Part No.	Description
1	BV-424915N04	LEADER(T) BLK G204EA
2	BV-424914N03	LEADER(S) BLK G204EA
3	VT-387394N3	GUIDE ROLLER D8 PART
4	ZS-418616J	PAN20X2.8STL CMT PS1 LEADER
5	ZS-383761J	ST BID26X06STL CMT
6	MZ-428101N	HOLDER CAM PINCH
7	ZG-420095N	SP PULL REVIEW BRAKE
8	ML-420092N1	REVIEW BRAKE PART
9	ML-420102N1	ARM T.U BRAKE
10	ZG-420103N1	SP PULL T.U BRAKE
11	ZG-420098N	SP PULL LOADING BRAKE
12	ML-420097N3	ARM LOADING BRAKE
13	MT-424632N2	DISK(2) PART
14	ZW-424667N	REEL WASHER
15	ML-420089N1	MAIN BRAKE(T)PART
16	ML-420086N1	MAIN BRAKE(S)PART
17	ZG-420091N	SP PULL MAIN BRAKE
18	ZS-403887N	PT BID26X12STL CMT (SG)
19	HE-422168N	HEAD E HVFHF0040A
20	ZW-395919J	SLIT W16X035X025 PSL
21	MR-420022N	ROLLER IMPEDANCE
22	ML-420006N2	ARM TENSION PART
23	MZ-420016N2	TENSION BAND PART
24	ZG-420015N1	SP PULL TENSION(1)
25	ML-420416N3	LEVER TENSION(1)PART
26	BL-428114N1	ARM PINCH ROLLER(2)PART
27	ZG-428105N1	SP PULL PINCH ROLLER
28	ML-428102N1	LEVER CAM PINCH
29	MZ-420064N1	GEAR CAM HELICAL
30	MZ-428103N	GEAR CAM R-204
31	MZ-420067N	GEAR PINCH
32	MZ-420132N3	PRISM LED
33	ML-420168N2	SLIDER FRONT LOADING
34	ZG-420169N1	SP TORSION SLIDER
35	HR-416732N	HEAD COMBO HVMZA1201A
36	ZS-575392	PAN26X08STL CMT
37	ZS-422170J	PAN26X07STL CMT CP
38	ZG-420075N	SP PUSH A/C
39	ZS-418480J	PAN20X2.2STL BZN PS1
40	ZS-362533	ST PAN30X05STL CMT C080
41	ZW-350839	N30 NYLON
42	ZW-324417	PW31X060X050PSL
43	ML-420068N2	ARM REVIEW PART
44	ZG-420071N1	SP TORSION REVIEW
45	ZS-358936N	ST BID30X06STL CMT (SG)
46	MZ-420172N2	PLATE UPPER
47	ML-420170N	ARM LID OPENER
48	MI-420023N3	ARM IDLER PART
49	BV-424919N09	CASSETTE LOAD BLK G204EA
50	ZG-420167N1	SP PULL DUMPER(T)
51-A	ZG-426481N	SP PLATE UPPER(S)
51-B	ZG-425178N	SP PLATE UPPER(T)
52	ZG-420166N	SP PULL DUMPER(S)
53	BL-424913N06	ARM LOADING BLK G204EA
55	BB-428300N	MECHA DECK GXS

NOTE :
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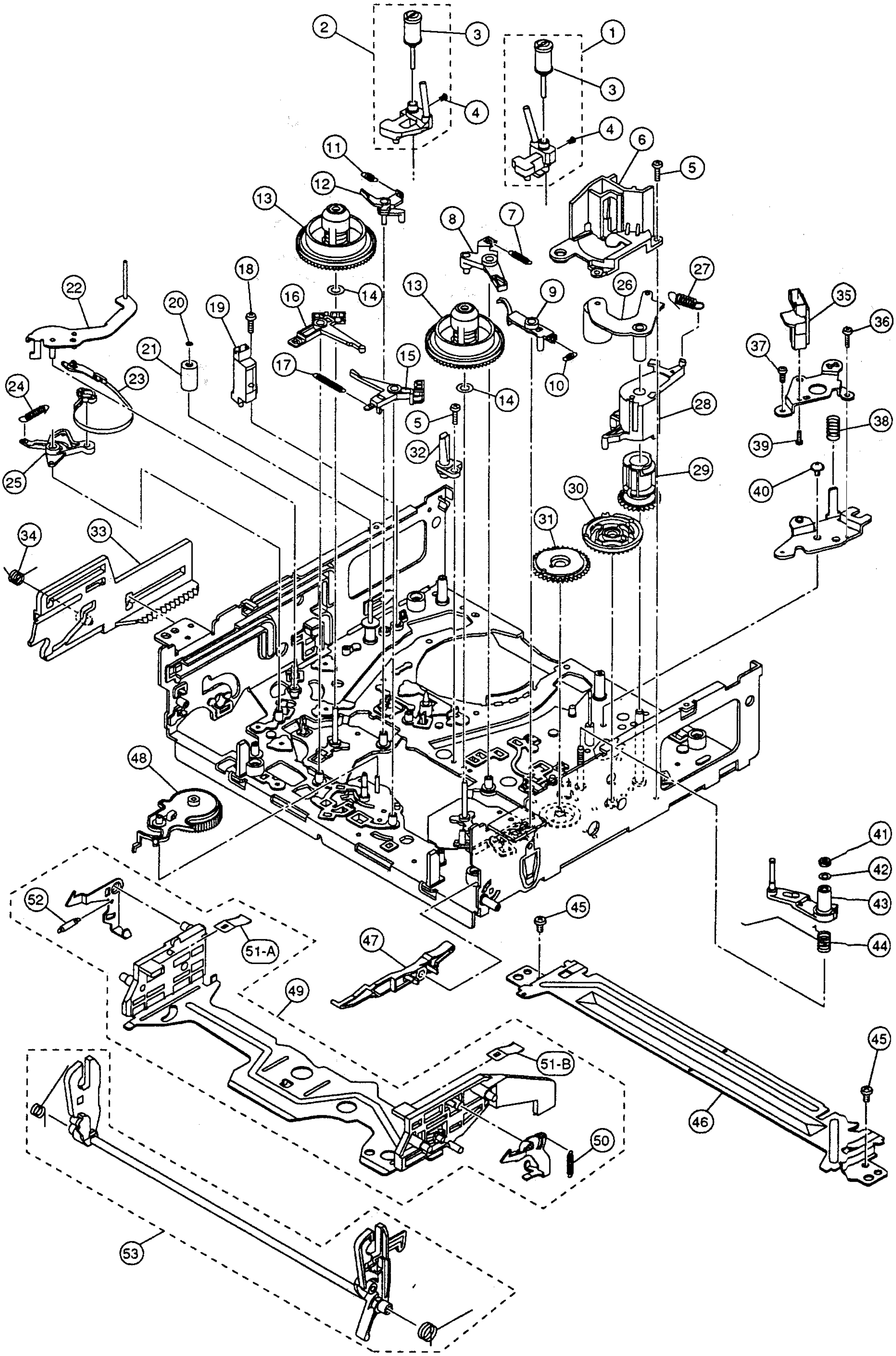
MECHANISM (1) BLOCK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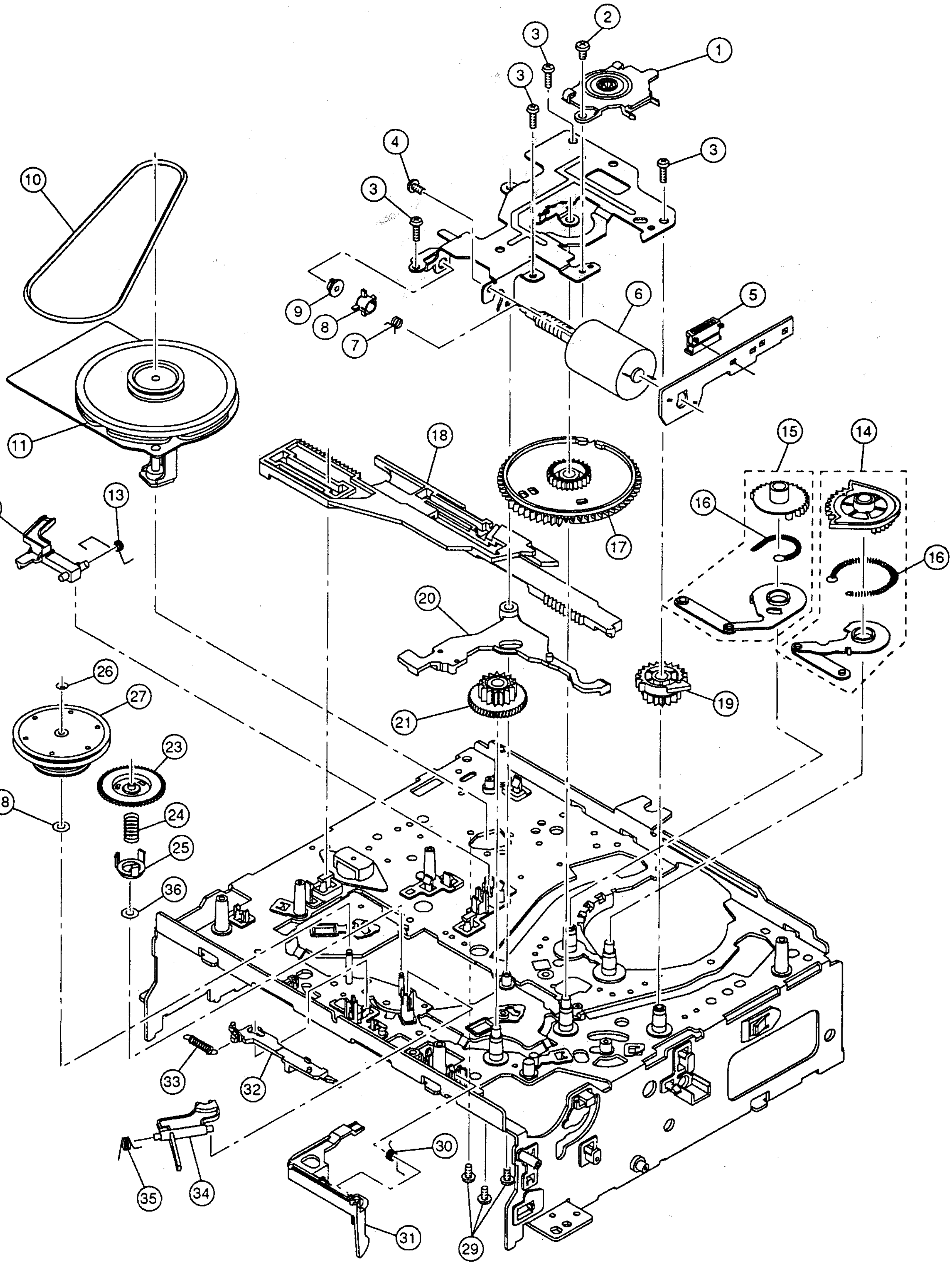
MECHANISM (2) BLOCK



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4. MECHANISM (2) BLOCK

Ref. No.	Part No.	Description
1	ES-419326N1	SW MODE SELECT MMS00202ZMB0
2	ZS-358936N	ST BID30X06STL CMT (SG)
3	ZS-389950N	PT BID26X10STL CMT (SG)
4	ZS-425981	BID30X03STL CMT
5	EJ-422169J	SOCKET TKC-M07X-A1 7P
6	BM-421746N1	MOTOR PART
7	ZG-420105N	SP TRIGGER
8	MR-420106N	PULLEY TRIGGER
9	MR-420109N	HOLDER THRUST WORM
10	MB-420053N	BELT CAPSTAN
11	BM-428250N3	MOTOR SCV-0604A
12	ML-428108N	STILL BRAKE PART
13	ZG-428110N	SP TORSION S.B
14	MZ-424917N03	GEAR TOGGLE (S) BLK G204EA
15	MZ-424916N04	GEAR TOGGLE (T) BLK G204EA
16	ZG-420117N	SP PULL TOGGLE
17	MZ-420122N1	GEAR CAM MAIN
18	ML-420110N4	SLIDER PINCH
19	MZ-420124N3	GEAR FRONT LOADING
20	ML-420099N2	LEVER M BRAKE
21	MZ-420123N1	GEAR WORM WHEEL
23	MZ-420035N	GEAR COUPLING
24	ZG-420036N	SP PUSH COUPLING
25	MI-420037N	DISK COUPLING
26	ZW-418816J	SLIT W21X050X050PSL
27	MI-420038N4	DISK CLUTCH PART
28	ZW-389923J	PW26X060X050PSL
29	ZS-432843N	PAN26X04STL CMT (SG)
30	ZG-420134N1	SP TORSION REC-S
31	ML-420133N2	LEVER REC-S
32	ML-420100N3	SLIDER TRIGGER
33	ZG-420101N	SP PULL TRIGGER
34	ML-426550N	ARM F/R COUPLING
35	ZG-420034N2	SP TORSION COUPLING
36	ZW-321317	PW21X040X050PSL

NOTE :
Parts will not be supplied if they are not listed in the parts list, even if they appear on the assembling illustrations with reference No.

5. P.C. BOARD BLOCK

Ref. No.	Part No.	Description
1-A	BA-V1229Q600H	FR PC MAIN BLK G740EOH-D(Y1
1-B	BA-V1229V600A	NS PC MAIN BLK G745EA-D
1-C	BA-V1229Q600B	FR PC MAIN BLK G745EK-N
1-D	BA-V1229Q600C	FR PC MAIN BLK G745EOH-D(Y1
1-E	BA-V1229Q600G	FR PC MAIN BLK G746EK-N
1-F	BA-V1229V600D	NS PC MAIN BLK G755EOH-N(S)
1-G	BA-V1229V600E	NS PC MAIN BLK G755EOH-N(E)
1-H	BA-V1229Q600F	FR PC MAIN BLK G757EOG-D
1-I	BA-V1229V605A	NS PC MAIN BLK G855EA-D
1-J	BA-V1229V605B	NS PC MAIN BLK G855EDG
1-K	BA-V1229Q605C	FR PC MAIN BLK G855EK-N
1-L	BA-V1229Q605D	FR PC MAIN BLK G855EOH-D(Y1
1-M	BA-V1229Q605E	FR PC MAIN BLK G856EOHDN(Y1
1-N	BA-V1229Q605F	FR PC MAIN BLK G858EOG-VD
2-A	BA-V1229V700A	NS PC#VID-P-M BLK G745EA-D
2-B	BA-V1229Q700B	FR PC#VID-P-M BLK G745EK-N [G745/G746EK]
2-C	BA-V1229Q700C	FR PC#VID-P-M BLK G745EOH-D(Y1 [G740/G745EOH]
2-D	BA-V1229V700D	NS PC#VID-P-M BLK G755EOH-N
2-E	BA-V1229Q700E	FR PC#VID-P-M BLK G757EOG-D
2-F	BA-V1229V705A	NS PC#VID-P-M BLK G855EA-D
2-G	BA-V1229V705B	NS PC#VID-P-M BLK G855EDG
2-H	BA-V1229Q705C	FR PC#VID-P-M BLK G855EK-N
2-I	BA-V1229Q705D	FR PC#VID-P-M BLK G855EOH-D(Y1
2-J	BA-V1229Q705E	FR PC#VID-P-M BLK G856EOHDN(Y1
2-K	BA-V1229Q705F	FR PC#VID-P-M BLK G858EOG-VD
3-A	BA-F5001V010A	NS PC VIF-HIFI BLKHIFI-EA [EA]
3-B	BA-F5001V030A	NS PC VIF-EDG BLK NOR-EDG [EDG]
3-C	BA-F5001V010B	NS PC VIF-HIFI BLKHIFI-EK-N [G745/G855EK]
3-D	BA-F5001V010G	NS PC VIF-HIFI BLKHIFI-ES-N [G746EK]
3-E	BA-F5001V010D	NS PC VIF-HIFI BLKHIFI-EOG [EOH-D,EOG]
3-F	BA-F5001V010E	NS PC VIF-HIFI BLKHIFI-EOH-N [EOH-N/DN]

PC (#) MAIN BLK CONSISTIS OF FOLLOWING P.C. BOARDS.

- MAIN P.C. BOARD
- VIF P.C. BOARD

PC (#) VID-P-M BLK CONSISTS OF FOLLOWING P.C. BOARDS.

- VIDEO P.C BOARD
- PRE-AMP P.C. BOARD
- D-MULTI P.C. BOARD

6. MAIN P.C. BOARD

Ref. No.	Part No.	Description
C201	⚠ EC-422101N	C MMY V CUT MKTR40 104M 275AC
C202	⚠ EC-422101N	C MMY V CUT MKTR40 104M 275AC
C204	⚠ EC-418706N	C CE V CUT CS11 E222M 400AC [EK,EOH,EOG]
C205	⚠ EC-418706N	C CE V CUT CS11 E222M 400AC
C206	⚠ EC-418706N	C CE V CUT CS11 E222M 400AC
C207	⚠ EC-418706N	C CE V CUT CS11 E222M 400AC [EK,EOH,EOG]
C208	⚠ EC-418706N	C CE V CUT CS11 E222M 400AC
C209	⚠ EC-418706N	C CE V CUT CS11 E222M 400AC
C210	EC-432918N	C EC V CUT YK 330M 400.0DC
C211	⚠ EC-428385N	C MMY V T05 MMCV 473K 400DC
C212	⚠ EC-418759N	C CE V T05 CC45 SL121K 1000DC
C213	EC-422421N	C EC V T05 SSP 4R7M 50.0DC
C220	EC-422106N	C EC V CUT YXB12 222M 6.3DC
C222	EC-422107N	C EC V CUT YXB10 471M 25.0DC
C433	⚠ EC-416655N	C DBL LAYER T05 FM0H473Z 5.5DC
D1	ED-307573N	D SILICON H 1SS131T-77 T26
D2	ED-307573N	D SILICON H 1SS131T-77 T26
D3	ED-307573N	D SILICON H 1SS131T-77 T26 [EDG,EOH,EOG]
D4	ED-373192N	D ZENER H HZS9A1L T26 [EDG,EOH,EOG]
D7	ED-307573N	D SILICON H 1SS131T-77 T26 [EOH,EOG]
D8	ED-307573N	D SILICON H 1SS131T-77 T26 [EOH,EOG]
D10	ED-412096J	D ZENER H HZS11A2 T26
D11	ED-404328N	D ZENER H HZS12C3 T26
D13	ED-307573N	D SILICON H 1SS131T-77 T26
D14	ED-400817N	D ZENER H HZS5C3 T26
D17	ED-307573N	D SILICON H 1SS131T-77 T26
D201	⚠ ED-418622N	D SILICON 1N4006N02 T05 800/1A
D202	⚠ ED-418622N	D SILICON 1N4006N02 T05 800/1A
D203	⚠ ED-418622N	D SILICON 1N4006N02 T05 800/1A
D204	⚠ ED-418622N	D SILICON 1N4006N02 T05 800/1A
D205	ED-427506N	D SILI.ERA22-10 T26 1000/0.5A
D207	ED-307573N	D SILICON H 1SS131T-77 T26
D208	ED-428162N	D SCHOTTKY 1S30-E T26 [G740,G745,G746,G755,G757]
D209	ED-428420N	D SILICON RL103F-N02T05 200/1A
D210	ED-426201N	D SCHOTTKY ERC81-004L7 S12
D212	ED-426202N	D SCHOTTKY ERC84-009L9 S15
D214	ED-428420N	D SILICON RL103F-N02T05 200/1A
D215	ED-422420J	D ZENER H MTZJ20C T26
D219	ED-400817N	D ZENER H HZS5C3 T26
D220	ED-403280N	D SILICON 1N4002N02 T05 100/1A
D221	ED-403280N	D SILICON 1N4002N02 T05 100/1A
D223	ED-307573N	D SILICON H 1SS131T-77 T26
D224	ED-400817N	D ZENER H HZS5C3 T26
D226	ED-307573N	D SILICON H 1SS131T-77 T26
D227	ED-403280N	D SILICON 1N4002N02 T05 100/1A
D228	ED-403280N	D SILICON 1N4002N02 T05 100/1A
D301	ED-307573N	D SILICON H 1SS131T-77 T26
D302	ED-307573N	D SILICON H 1SS131T-77 T26
D303	ED-307573N	D SILICON H 1SS131T-77 T26 [G855,G856,G858]
D304	ED-307573N	D SILICON H 1SS131T-77 T26 [G855,G856,G858]
D305	ED-307573N	D SILICON H 1SS131T-77 T26
D401	ED-390012N	D LED GL4800 INFRARED
D402	ED-390012N	D LED GL4800 INFRARED
D403	ED-422251N	D LED GL528VTB INFRARED T05
D404	ED-307573N	D SILICON H 1SS131T-77 T26
D405	ED-427218N	D ZENER H MTZJ6.2C T26
D406	ED-307573N	D SILICON H 1SS131T-77 T26
D407	ED-307573N	D SILICON H 1SS131T-77 T26
D408	ED-422519N	D ZENER H MTZJ4.3B T26
D409	ED-307573N	D SILICON H 1SS131T-77 T26
FL301-A	EO-418829N	COIL OSC 1 6062 70.0KHZ [G740,G745,G746,G755,G757]
FL301-B	EO-418830N	COIL OSC 1 6063 70.0KHZ [G855,G856,G858]
FL302	EO-433076N	COIL OSC 1 6064 70.0KHZ [G855,G856,G858]
FL670	EO-422362N	COIL TUN 1 V1184-049B VCO [EXCEPT EOG-VD]
FR202	⚠ ER-418648N	R FUSE V T05 RF25SCVTP1/4WR24K
FR203	⚠ ER-400729N	R FUSE V T05 RF25SCVTP1/4WR47K
FR204	⚠ ER-428204N	R FUSE V T05RF25SVTP 1/4W 220J
FR206	⚠ ER-408829N	R FUSE V T05 RF25SCVTP1/4WR11K
FR401	⚠ ER-400729N	R FUSE V T05 RF25SCVTP1/4WR47K
F201	⚠ EF-394702N	FUSE 218 TIME 250V 2.00A
IC1	EI-389471N	IC L5631 T05
IC2	EI-390053N	IC LA7910 [EXCEPT G745/G855EK]
IC3	EI-416620N	IC NJM7809FA
IC201	EI-428194J	IC NJM4558DD
IC301	EI-433062J	IC TDA9614H
IC302	EI-385995N	IC BA7755A
IC303	EI-328593N	IC HD14053BP [EOH-DN]
IC401-A	EI-433210N1	IC M37774M7H111GP NXHSYPV2 [EK]
IC401-B	EI-433211N1	IC M37774M7H112GP NXHSYGS2 [G757EOG]
IC401-C	EI-434192N	IC M37774M7H115GP NHXSGTS1 [G858EOG]
IC401-D	EI-433209N1	IC M37774M7H110GP NXHSYPS2 [EA,EDG,EOH]
IC402-A	EI-433239N1	IC UPD78042FGF-018-3B9NXHDSPL2 [G740,G745,G746,G755,G757]
IC402-B	EI-433240N1	IC UPD78042FGF-019-3B9NXHDSPH2 [G855,G856]
IC402-C	EI-434191N	IC UPD78046HGF-013-3B9NXHDSPT1 [G858]
IC403	EI-353750N	IC NJM4558MB T1 T1T32P
IC404	EI-403233N	IC LB1641
IC405	EI-428401N	IC PST9130-T T05
IC406-A	EI-431275N	IC 24LC04BT/SN FP T12E [G745EA/EOH,G755EOH[S]]
IC406-B	EI-422442N	IC 24LC02BT/SN FP T12E [EXCEPT G745EA/EOH,G755EOH[S]]
IC601	EI-428403N	IC SDA5649X FP T24E [EXCEPT EA,G740EOH,G755EOH[S], G858EOG]
IC620	EI-418761N	IC 24LC08BT/SN FP T12E [EOG-VD]
IC670	EI-433063N	IC LC74763-9143 [EXCEPT EOG-VD]
L1	EO-410256N	COIL FIX 1 EL0405RA T05 100J
L5	EO-434146N	COIL FIX 1 LF-5.0S T26 R27K [EOH,EOG]
L6	EO-422488N	COIL FIX 1 LF-5.0S T26 100J [EXCEPT G745/G855EK]
L7	EO-422488N	COIL FIX 1 LF-5.0S T26 100J [EXCEPT EA]
L201	EO-428349N	COIL LF UF1922C4-152Y1R5-01 [EK,EOH,EOG]
L202	EO-428417N	COIL LF HF2022-333Y0R3-01
L203	EO-422134N	COIL FIX 2 PC7-330K 330K
L204	EO-422134N	COIL FIX 2 PC7-330K 330K
L205	EO-422134N	COIL FIX 2 PC7-330K 330K
L301	EO-422477N	COIL FIX 1 LF-5.0S T26 470J
L302	EO-392659N	COIL FIX 1 LHL06TB T05 562J
L303	EO-422477N	COIL FIX 1 LF-5.0S T26 470J
L304	EO-422477N	COIL FIX 1 LF-5.0S T26 470J
L311	EO-390716N	COIL FIX 1 LHL06TB T05 272J [G855,G856,G858]
L312	EO-390716N	COIL FIX 1 LHL06TB T05 272J
L401	EO-432682N	COIL FIX 1 EL0405RA T05 220J
L402	EO-410256N	COIL FIX 1 EL0405RA T05 100J
L403	EO-410256N	COIL FIX 1 EL0405RA T05 100J
L601	EO-422488N	COIL FIX 1 LF-5.0S T26 100J [EXCEPT EA,G740EOH,G755EOH[S]]
L670	EO-345881N	COIL FIX 1 EL0606SKI 101J [EXCEPT EOG-VD]
L671	EO-422488N	COIL FIX 1 LF-5.0S T26 100J [EXCEPT EOG-VD]
L672	EO-422474N	COIL FIX 1 LF-5.0S T26 6R8J [EXCEPT EOG-VD]
MD1-A	BV-387610N	RF CONVERTER YAA21-0809G EA [EA]

Ref. No.	Part No.	Description
MD1-B	BV-429837N	RF CONVERTER YAA21-1046H I EK [EK]
MD1-C	BV-434180N	RF CONVER. YAA21-1108G G/K EDG [EDG]
MD1-D	BV-429839N	RF CONVERTER YAA21-1045H G EO [EOH,EOG]
PH201	ET-422113N	PHOTO COUPLER PS2561-1-V
P201	⚠ EJ-416590N	SOCKET INLET CCT-2302-0371 2P [AC INLET]
P301-A	EJ-433044N	SOCKET 00 6216 009 000 9P [G745/G746EK G755EOH[E]]
P301-B	EJ-433007N	SOCKET 00 6216 007 000 7P [G740EA,G740/G745EOH,G755EOH[S], G757EOG]
P301-C	EJ-416631N	SOCKET 00 6216 016 000 16P [G855,G856,G858]
P306	EJ-433044N	SOCKET 00 6216 009 000 9P
P315	EJ-433005N	PLUG TSK-B14P-A1 14P
P402-A	EJ-416631N	SOCKET 00 6216 016 000 16P [G740,G745,G746,G755,G757]
P402-B	EJ-433015N	SOCKET 00 6216 018 000 18P [G855,G856,G858]
P403-A	EJ-416631N	SOCKET 00 6216 016 000 16P [G740,G745,G746,G755,G757]
P403-B	EJ-433015N	SOCKET 00 6216 018 000 18P [G855,G856,G858]
P404	EJ-422176N	PLUG TKC-M07P-B1 7P
P405	EJ-422178N	PLUG TKC-G08P-A1 8P
P607	EJ-433077N	SOCKET 00 6216 011 000 11P
P608	EJ-433031N	SOCKET 15R-JE 15P
P609	EJ-433032N	SOCKET 17R-JE 17P
P616	EJ-429906N	PLUG TSK-B17P-A1 17P
R201	ER-422189N	R CT P BGR3N 3W 4R7K [EK,EOH,EOG]
R206	ER-422181N	R OMF H S20 FS ERG3SH 3W 823J
R208	ER-422512N	R OMF H S15 FS ERG2SH 2W 151J
R210	ER-428386N	R OMF V T05 FS ERX1SE 1W R56J
SW401	ES-426275N	SW MICRO ESE11SV1A
SW402	ES-426275N	SW MICRO ESE11SV1A
TR1	ET-429897N	TR C.DTC144EKA T146T08E [EA]
TR2	ET-416932N	TR C.2SB709A R,S TXT08E [EA]
TR4	ET-416933N	TR C.2SD601A R,S TXT08E
TR6	ET-392746N1	TR 2SA933AS R,S T05
TR7	ET-414816N	TR 2SC2668 Y T05
TR8	ET-416932N	TR C.2SB709A R,S TXT08E
TR9	ET-416933N	TR C.2SD601A R,S TXT08E [EDG,EOH,EOG]
TR10	ET-433071N	TR C.DTC144TKA T146T08E [EDG,EOH,EOG]
TR11	ET-416932N	TR C.2SB709A R,S TXT08E [EA,EK]
TR12	ET-416933N	TR C.2SD601A R,S TXT08E
TR13	ET-416932N	TR C.2SB709A R,S TXT08E
TR14	ET-430868N	TR C.DTC114EKA T146T08E
TR20	ET-430868N	TR C.DTC114EKA T146T08E
TR21	ET-416697N	TR 2SD2396 J,K
TR22	ET-416933N	TR C.2SD601A R,S TXT08E
TR23	ET-416933N	TR C.2SD601A R,S TXT08E
TR24	ET-430868N	TR C.DTC114EKA T146T08E
TR25	ET-416932N	TR C.2SB709A R,S TXT08E
TR201	ET-428371N	TR 2SC4908
TR202	ET-422129N	TR 2SD2132 U,V T05
TR203	ET-422464N	TR C.2SD2118 Q,R,S FPTLT16E
TR205	ET-416697N	TR 2SD2396 J,K
TR206	ET-404498N	TR 2SB1306 Q,R T05
TR207	ET-368786N	TR DTC143ZS T05
TR208	ET-392663N	TR 2SC1740S R,S T05
TR209	ET-416932N	TR C.2SB709A R,S TXT08E
TR301	ET-429897N	TR C.DTC144EKA T146T08E
TR302	ET-429896N	TR C.DTA144EKA T146T08E
TR303	ET-433072N	TR C.DTC114TKA T146T08E [EXCEPT EDG]
TR304	ET-433072N	TR C.DTC114TKA T146T08E [EK,EDG,EOH-N]

Ref. No.	Part No.	Description
TR305	ET-433072N	TR C.DTC114TKA T146T08E [EXCEPT EDG]
TR310	ET-416932N	TR C.2SB709A R,S TXT08E
TR311	ET-416933N	TR C.2SD601A R,S TXT08E
TR312	ET-416932N	TR C.2SB709A R,S TXT08E
TR313	ET-430868N	TR C.DTC114EKA T146T08E
TR314	ET-416933N	TR C.2SD601A R,S TXT08E [G855,G856,G858]
TR315	ET-429897N	TR C.DTC144EKA T146T08E [EOH-DN]
TR317	ET-364645N	TR DTC143ES T05
TR318	ET-416932N	TR C.2SB709A R,S TXT08E
TR319	ET-416932N	TR C.2SB709A R,S TXT08E
TR320	ET-429897N	TR C.DTC144EKA T146T08E
TR321	ET-433072N	TR C.DTC114TKA T146T08E [EOH-DN]
TR322	ET-416933N	TR C.2SD601A R,S TXT08E [EOH-DN]
TR401	ET-390010N	TR PHOTO PT4800
TR402	ET-390010N	TR PHOTO PT4800
TR403	ET-390009N	TR PHOTO PT493F
TR404	ET-390009N	TR PHOTO PT493F
TR405	ET-430868N	TR C.DTC114EKA T146T08E
TR406	ET-428400N	TR C.DTC143EKA T146T08E
TR407	ET-416932N	TR C.2SB709A R,S TXT08E
TR408	ET-429897N	TR C.DTC144EKA T146T08E
TR409	ET-386784N	TR DTA143TS T05
TR410	ET-415140N	TR DTA115TS T05
TR411	ET-373201N	TR DTC144TS T05
TR670	ET-416932N	TR C.2SB709A R,S TXT08E [EXCEPT EOG-VD]
TR671	ET-416933N	TR C.2SD601A R,S TXT08E [EXCEPT EOG-VD]
TR672	ET-416932N	TR C.2SB709A R,S TXT08E [EXCEPT EOG-VD]
TR673	ET-416932N	TR C.2SB709A R,S TXT08E [EXCEPT EOG-VD]
TU1-A	EE-419189N	TV TUNER VTSH6AZ01 EA [EA]
TU1-B	EE-428336N	TV TUNER TEKB1-014A EK [G745/G855EK]
TU1-C	EE-432827N	TV TUNER TEKE1-163A EO [G746EK]
TU1-D	EE-432823N	TV TUNER TEKE4-179A EOG [EDG,EOH,EOG]
T201	⚠ BT-434175N	TRANS POW V1230-M
X401	EI-425240N	OSC X'TAL APS1011A 16.000 MHZ
X402	EI-431323N	OSC X'TAL C-002RX 32.768KHZ
X403	EI-413047N	OSC CE CST5.00MGW 5.000 MHZ
X670	EI-416872N	OSC X'TAL APS1004A 17.734475MH [EXCEPT EOG-VD]
1	SZ-426915N	HOLDER S/E SENSOR 2 (SG)
2	SZ-428508N1	HOLDER PHOTO SENSOR (SG)
3	SZ-429351N	HOLDER LED(1) (SG

7. VIF-HIFI P.C. BOARD (EA,EK,EOH,EOG)

Ref. No.	Part No.	Description
FL1-A	EH-432622N	FILTER CE SAF31.4MC70Z [EA]
FL1-B	EH-432624N	FILTER CE SAF32.9MC70Z [G745/G855EK]
FL1-C	EH-428166N	FILTER CE SAF33.0MCD70Z [G746EK]
FL1-D	EH-432626N	FILTER CE SAF33.4MC70Z [EOH-D,EOG]
FL1-E	EH-432625N	FILTER CE SAF33.0MC70Z [EOH-N/DN]
FL2-A	EH-373916N	FILTER CE SAF36.9MZ70Z [EA]
FL2-B	EH-373917N	FILTER CE SAF39.5MZ70Z [G745/G855EK]
FL2-C	EH-432629N	FILTER CE SAF38.9MZW70Z [EOH,EOG,G746EK]
FL3-A	EH-368948N	FILTER CE TPS5.5MWA 5.5000MHZ [EA,EOH,EOG]
FL3-B	EH-405642N	FILTER CE TPS6.0MB-TF21 T05 [EK]
FL4-A	EH-416920N	FILTER CE SFT6.0MA [EK]
FL4-B	EH-394948N	FILTER CE SFT5.5MA [EOH-N/DN]
IC1	EI-432759N	IC LA7577N
L3	EO-427715N	COIL FIX 1 EL0405RA T05 R22K [G746EK]
L4-A	EO-428463N	COIL FIX 1 EL0405RA T05 2R7J [EA,G746EK]
L4-B	EO-428259N	COIL FIX 1 EL0405RA T05 R68K [G745/G855EK]
L4-C	EO-427255N	COIL FIX 1 EL0405RA T05 1R0J [EOH,EOG]
L5	EO-432681N	COIL FIX 1 EL0405RA T05 2R2J
L9-A	EO-427708N	COIL FIX 1 EL0405RA T05 120J [EA,EOH,EOG]
L9-B	EO-410256N	COIL FIX 1 EL0405RA T05 100J [EK]
L10-A	EO-408956N	COIL FIX 1 EL0405RA T05 390J [EA,EOH,EOG]
L10-B	EO-427716N	COIL FIX 1 EL0405RA T05 820J [G745/G855EK]
L10-C	EO-408838N	COIL FIX 1 EL0405RA T05 680J [G746EK]
TR1	ET-421990N	TR C.UN2211 TXT08E [EOH,EOG]
TR2	ET-421990N	TR C.UN2211 TXT08E [EOH,EOG]
TR3	ET-432740N	TR C.2SC2480 T,S TXT08E
TR6	ET-416933N	TR C.2SD601A R,S TXT08E
TR7	ET-416933N	TR C.2SD601A R,S TXT08E [EK,EOH-N/DN]
VL1	EO-432616N	COIL TUN 1 F5001-103 TRAP [EOH,EOG]
VL2	EO-432618N	COIL TUN 1 F5001-104 TRAP [EOH,EOG]
VL6-A	EO-432613N	COIL TUN 1 F5001-100 SIF [EK]
VL6-B	EO-432614N	COIL TUN 1 F5001-101 SIF [EOH-N/DN]
VL7-A	EO-432608N	COIL TUN 1 F5001-095A AFT [EA]
VL7-B	EO-432609N	COIL TUN 1 F5001-096 AFT [EK,EOH,EOG]
VL8-A	EO-432602N	COIL TUN 1 F5001-090 VCO [EA]
VL8-B	EO-432603N	COIL TUN 1 F5001-091 VCO [EK,EOH,EOG]
VR1	EV-432754N	R S-FIX H T05 RH0684C 0.3W 223
VR2	EV-432754N	R S-FIX H T05 RH0684C 0.3W 223 [EOH,EOG]

8. VIF-EDG P.C. BOARD (EDG)

Ref. No.	Part No.	Description
FL1	EH-432627N	FILTER CE SAF38.9MZC70Z
FL2	EH-414623N	FILTER CE TPS6.5MB-TF21 T05
FL3	EH-368948N	FILTER CE TPS5.5MWA 5.5000MHZ
FL51	EH-433123N	FILTER CE SFSH6.5MCB-TF21 T05
FL52	EH-433121N	FILTER CE SFSH5.5MCB-TF21 T05
FL53	EH-433122N	FILTER CE SFSH6.0MCB-TF21 T05
IC1	EI-368809N	IC M51496P
L1	EO-427373N	COIL FIX 1 EL0405RA T05 1R8J
L5	EO-416716N	COIL FIX 1 EL0405RA T05 8R2J
L6	EO-410255N	COIL FIX 1 EL0405RA T05 470J
L51	EO-416716N	COIL FIX 1 EL0405RA T05 8R2J
L52	EO-408834N	COIL FIX 1 EL0405RA T05 221J
TR1	ET-432740N	TR C.2SC2480 T,S TXT08E
TR2	ET-416932N	TR C.2SB709A R,S TXT08E
TR3	ET-416933N	TR C.2SD601A R,S TXT08E
TR4	ET-416932N	TR C.2SB709A R,S TXT08E
TR51	ET-416933N	TR C.2SD601A R,S TXT08E
TR52	ET-416933N	TR C.2SD601A R,S TXT08E
VL2	EO-432611N	COIL TUN 1 F5001-098 SIF
VL3	EO-432607N	COIL TUN 1 F5001-094 AFT
VL4	EO-432601N	COIL TUN 1 F5001-089 LLD
VR1	EV-432752N	R S-FIX V T05 RH063LC 0.1W 223
X1	EI-368829N	OSC CE CSB512P

9. IN-OUT P.C. BOARD (EA,EK,EOH-N)

Ref. No.	Part No.	Description
D3	ED-307573N	D SILICON H 1SS131T-77 T26
D4	ED-307573N	D SILICON H 1SS131T-77 T26 [EK,EOH-N]
IC1	EI-416646N	IC MM1113XS
IC2	EI-414859N	IC MM1112XS [G855EK]
L1	EO-345881N	COIL FIX 1 EL0606SKI 101J
PJ1	EJ-389864N	SOCKET M1817 21P [EK,EOH-N]
PJ2	EJ-389864N	SOCKET M1817 21P [EK,EOH-N[E]]
PJ3	EJ-432994N	PIN J JPJ1008-01-040 YELLOW 1 P [EA,G855EK]
PJ4	EJ-432995N	PIN J JPJ1006-01-030 WHITE 1P [EA,G855EK]
PJ5	EJ-432996N	PIN J JPJ1006-01-020 RED 1P [EA,G855EK]
PJ6	EJ-422552N	PIN J JPJ2202-01-040 1P [EA]
PJ7	EJ-422553N	PIN J JPJ2202-01-030 1P
PJ8	EJ-422554N	PIN J JPJ2202-01-020 1P
P15	EJ-432993N	SOCKET TSK-B14X-A1 14P
P16	EJ-429905N	SOCKET TSK-B17X-A1 17P
TR1	ET-392663N	TR 2SC1740S R,S T05
TR2	ET-392663N	TR 2SC1740S R,S T05
TR3	ET-392663N	TR 2SC1740S R,S T05
TR4	ET-364082N	TR DTA114TS T05
TR5	ET-361961N	TR DTC144ES T05
TR6	ET-364291N	TR DTA144ES T05 [EK,EOH-N]
TR7	ET-361961N	TR DTC144ES T05 [EK,EOH-N]
TR8	ET-361961N	TR DTC144ES T05 [G855EK]
TR9	ET-373201N	TR DTC144TS T05 [G855EK]
TR10	ET-361961N	TR DTC144ES T05 [G855EK]
TR11	ET-373201N	TR DTC144TS T05 [G855EK]

10. DECODER P.C. BOARD (EDG,EOG,EOH-D/DN)

Ref. No.	Part No.	Description
D1	ED-307573N	D SILICON H 1SS131T-77 T26
D2	ED-307573N	D SILICON H 1SS131T-77 T26
D3	ED-401099N	D SCHOTTKY MA719 T26 40/0.5A [G858EOG]
D4	ED-307573N	D SILICON H 1SS131T-77 T26
D5	ED-307573N	D SILICON H 1SS131T-77 T26
IC1	EI-433042N	IC STV6400
L1	EO-345881N	COIL FIX 1 EL0606SKI 101J
L2	EO-345881N	COIL FIX 1 EL0606SKI 101J
PJ1	EJ-389864N	SOCKET M1817 21P
PJ2	EJ-389915N	SOCKET M1817-A 21P
PJ3	EJ-422552N	PIN J JPJ2202-01-040 1P [EDG,G855/G856EOH,G858EOG]
PJ4	EJ-422553N	PIN J JPJ2202-01-030 1P [EDG,G855/G856EOH,G858EOG]
PJ5	EJ-422553N	PIN J JPJ2202-01-030 1P
PJ6	EJ-422554N	PIN J JPJ2202-01-020 1P [EDG,G855/G856EOH,G858EOG]
PJ7	EJ-422554N	PIN J JPJ2202-01-020 1P
P15	EJ-432993N	SOCKET TSK-B14X-A1 14P
P16	EJ-429905N	SOCKET TSK-B17X-A1 17P
TR6	ET-364291N	TR DTA144ES T05
TR9	ET-361961N	TR DTC144ES T05 [EDG,G855/G856EOH,G858EOG]
TR10	ET-392663N	TR 2SC1740S R,S T05
TR11	ET-392663N	TR 2SC1740S R,S T05
TR12	ET-361961N	TR DTC144ES T05
TR13	ET-364082N	TR DTA114TS T05
TR14	ET-364023N	TR DTC114ES T05
TR16	ET-392663N	TR 2SC1740S R,S T05
TR17	ET-392663N	TR 2SC1740S R,S T05
TR18	ET-361961N	TR DTC144ES T05

11. OPERATION-L P.C. BOARD (G740,G745,G746,G755,G757)

Ref. No.	Part No.	Description
D1	ED-307573N	D SILICON H 1SS131T-77 T26
D2	ED-307573N	D SILICON H 1SS131T-77 T26
D3	ED-307573N	D SILICON H 1SS131T-77 T26
D4	ED-307573N	D SILICON H 1SS131T-77 T26
D5	ED-307573N	D SILICON H 1SS131T-77 T26
D6	ED-427719N	D ZENER H MTZJ9.1A T26
FL1	EM-429960N	IND FL FIP10CCM7A CHARACTER
PH1	ET-428361N	DETECTOR GP1U281X
P2	EJ-416651N	SOCKET 00 6216 016 100 16P
P3	EJ-433004N	SOCKET 00 6216 016 110 16P
SW1	ES-396610N	SW TACT SOR-122HS T05
SW4	ES-396610N	SW TACT SOR-122HS T05
SW5	ES-396610N	SW TACT SOR-122HS T05
SW6	ES-396610N	SW TACT SOR-122HS T05
SW7	ES-396610N	SW TACT SOR-122HS T05
SW8	ES-396610N	SW TACT SOR-122HS T05
SW9	ES-396610N	SW TACT SOR-122HS T05
SW10	ES-396610N	SW TACT SOR-122HS T05
SW11	ES-396610N	SW TACT SOR-122HS T05
SW12	ES-396610N	SW TACT SOR-122HS T05
SW13	ES-396610N	SW TACT SOR-122HS T05
TR1	ET-364645N	TR DTC143ES T05
TR2	ET-364645N	TR DTC143ES T05

12. OPERATION-H P.C. BOARD (G855,G856,G858)

Ref. No.	Part No.	Description
D1	ED-307573N	D SILICON H 1SS131T-77 T26
D2	ED-405529N	D ZENER H MTZJ5.6C T26
D3	ED-307573N	D SILICON H 1SS131T-77 T26
D4	ED-307573N	D SILICON H 1SS131T-77 T26
D5	ED-425540N	D ZENER H MTZJ18C T26
D6	ED-307573N	D SILICON H 1SS131T-77 T26
D7	ED-307573N	D SILICON H 1SS131T-77 T26
D8	ED-307573N	D SILICON H 1SS131T-77 T26
D9	ED-307573N	D SILICON H 1SS131T-77 T26
D10	ED-307573N	D SILICON H 1SS131T-77 T26
D11	ED-307573N	D SILICON H 1SS131T-77 T26
FL1	EM-432999N	IND FL FV720G CHARACTER
FL2	EO-425267N	COIL OSC 1125-8086-31 62.5KHZ
FR1	⚠ ER-307565N	R FUSE H S10 ERD2FC 1/4W 6R8J
PH1	ET-428361N	DETECTOR GP1U281X
P2	EJ-422061N	SOCKET 00 6216 018 100 18P
P3	EJ-433002N	SOCKET 00 6216 018 110 18P
SW1	ES-396610N	SW TACT SOR-122HS T05
SW2	ES-396610N	SW TACT SOR-122HS T05
SW3	ES-396610N	SW TACT SOR-122HS T05
SW4	ES-396610N	SW TACT SOR-122HS T05
SW5	ES-396610N	SW TACT SOR-122HS T05
SW6	ES-396610N	SW TACT SOR-122HS T05
SW7	ES-396610N	SW TACT SOR-122HS T05
SW8	ES-396610N	SW TACT SOR-122HS T05
SW9	ES-396610N	SW TACT SOR-122HS T05
SW10	ES-396610N	SW TACT SOR-122HS T05
SW11	ES-396610N	SW TACT SOR-122HS T05
SW12	ES-396610N	SW TACT SOR-122HS T05
SW13	ES-396610N	SW TACT SOR-122HS T05
TR1	ET-416697N	TR 2SD2396 J,K
TR3	ET-392663N	TR 2SC1740S R,S T05
TR4	ET-364645N	TR DTC143ES T05

13. FRONT-L P.C. BOARD (G740,G745,G746,G755,G757)

Ref. No.	Part No.	Description
D101	ED-307573N	D SILICON H 1SS131T-77 T26
D102	ED-307573N	D SILICON H 1SS131T-77 T26
L101	EO-422487N	COIL FIX 1 LF-5.0S T26101 J
PJ101-A	EJ-422356N	PIN J JPJ4022-01-040 1P [G745/G746EK,G755EOH[E]]
PJ101-B	EJ-428007N	PIN J JPJ2022-01-040 YELLOW 1P [EXCEPT G745/G746EK,G755EOH[E]]
PJ102-A	EJ-396453N	PIN J JPJ5022-01-030 1P [G745/G746EK,G755EOH[E]]
PJ102-B	EJ-428006N	PIN J JPJ2022-01-030 WHITE 1P [EXCEPT G745/G746EK,G755EOH[E]]
PJ103-A	EJ-396452N	PIN J JPJ5022-01-020 1P [G745/G746EK,G755EOH[E]]
PJ103-B	EJ-428008N	PIN J JPJ2022-01-020 RED 1P [EXCEPT G745/G746EK,G755EOH[E]]
P101-A	EJ-433106N	SOCKET 00 6216 009 110 9P [G745/G746EK,G755EOH[E]]
P101-B	EJ-433105N	SOCKET 00 6216 007 110 7P [EXCEPT G745/G746EK,G755EOH[E]]
TR101	ET-392663N	TR 2SC1740S R,S T05
TR102	ET-392663N	TR 2SC1740S R,S T05
TR103	ET-392663N	TR 2SC1740S R,S T05

14. FRONT-H P.C. BOARD (G855,G856,G858)

Ref. No.	Part No.	Description
D101	ED-307573N	D SILICON H 1SS131T-77 T26
D102	ED-307573N	D SILICON H 1SS131T-77 T26
IC101	EI-386468N	IC BA3308
L101	EO-422487N	COIL FIX 1 LF-5.0S T26 101J
L103	EO-422481N	COIL FIX 1 LF-5.0S T26 220J
L104	EO-422481N	COIL FIX 1 LF-5.0S T26 220J
PJ101-A	EJ-428007N	PIN J JPJ2022-01-040 YELLOW 1P [EA]
PJ101-B	EJ-422356N	PIN J JPJ4022-01-040 1P [EXCEPT EA]
PJ102-A	EJ-428006N	PIN J JPJ2022-01-030 WHITE 1P [EA]
PJ102-B	EJ-396453N	PIN J JPJ5022-01-030 1P [EXCEPT EA]
PJ103-A	EJ-428008N	PIN J JPJ2022-01-020 RED 1P [EA]
PJ103-B	EJ-396452N	PIN J JPJ5022-01-020 1P [EXCEPT EA]
PJ104	EJ-410383N	PHONE J 2P HSJ1406-01-010 3.5
PJ105	EJ-362033N	PHONE J 3P HSJ1406-01-020 3.5
P101	EJ-433004N	SOCKET 00 6216 016 110 16P
TR101	ET-392663N	TR 2SC1740S R,S T05
TR102	ET-392663N	TR 2SC1740S R,S T05
TR103	ET-392663N	TR 2SC1740S R,S T05
VR101	EV-433003N	VR ROTA.RK09K1130L20 1BM203FL.
VR102	EV-433003N	VR ROTA.RK09K1130L20 1BM203FL.

15. VIDEO P.C. BOARD

Ref. No.	Part No.	Description
D101	ED-397614N	D ZENER H HZS9A3L T26 [G757,G855,G856,G858]
D102	ED-307573N	D SILICON H 1SS131T-77 T26 [G757,G855,G856,G858]
D103	ED-307573N	D SILICON H 1SS131T-77 T26 [G757,G855,G856,G858]
D301	ED-307573N	D SILICON H 1SS131T-77 T26
D302	ED-307573N	D SILICON H 1SS131T-77 T26
D303	ED-307573N	D SILICON H 1SS131T-77 T26 [EDG,EOH,EOG]
IC101	EI-422218N	IC M51494L [G757,G855,G856,G858]
IC102	EI-403306N	IC NJM4558L [G757,G855,G856,G858]
IC201	EI-433061N	IC TA1225N [EOG]
IC302	EI-432781N	IC LA7447BM
IC303	EI-428406N	IC LA7356M-TRM FPR T12E [EDG]
IC304	EI-432780N	IC LC89975M-TE-R FPR T16E
L1	EO-422473N	COIL FIX 1 LF-5.0S T26 680J
L2	EO-422478N	COIL FIX 1 LF-5.0S T26 390J
L3	EO-422484N	COIL FIX 1 LF-5.0S T26 180J
L4	EO-422484N	COIL FIX 1 LF-5.0S T26 180J
L5	EO-422483N	COIL FIX 1 LF-5.0S T26 181J
L6	EO-414622N	COIL FIX 1 EL0607RA T05 101K
L7	EO-428360N	COIL FIX 1 LF-5.0S T26 331J
L8	EO-422472N	COIL FIX 1 LF-5.0S T26 8R2J
L9	EO-428358N	COIL FIX 1 LF-5.0S T26 221J
L10	EO-422473N	COIL FIX 1 LF-5.0S T26 680J
L101	EO-422475N	COIL FIX 1 LF-5.0S T26 560J [G757,G855,G856,G858]
L102	EO-422474N	COIL FIX 1 LF-5.0S T26 6R8J [G757,G855,G856,G858]
L103	EO-345881N	COIL FIX 1 EL0606SKI 101J [G757,G855,G856,G858]
L104	EO-345881N	COIL FIX 1 EL0606SKI 101J [G757,G855,G856,G858]
L105	EO-425202N	COIL FIX 1 LF-5.0S T26 270J [G757,G855,G856,G858]
L201	EO-345881N	COIL FIX 1 EL0606SKI 101J [EOG]
L301	EO-422479N	COIL FIX 1 LF-5.0S T26 330J [EDG,EOH,EOG]
L302	EO-422477N	COIL FIX 1 LF-5.0S T26 470J
L305	EO-422479N	COIL FIX 1 LF-5.0S T26 330J
L306	EO-422477N	COIL FIX 1 LF-5.0S T26 470J
L307	EO-422474N	COIL FIX 1 LF-5.0S T26 6R8J
L309	EO-345881N	COIL FIX 1 EL0606SKI 101J
L310	EO-422477N	COIL FIX 1 LF-5.0S T26 470J
P8	EJ-433038N	SOCKET 15PSL-JE 15P
P9	EJ-433039N	SOCKET 17PSL-JE 17P
P19	EJ-433109N	SOCKET 00 6216 006 110 6P
TR1	ET-429896N	TR C.DTA144EKA T146T08E
TR2	ET-428248N	TR C.2SA1037AK R,S T146T08E
TR3	ET-430868N	TR C.DTC114EKA T146T08E
TR4	ET-428248N	TR C.2SA1037AK R,S T146T08E
TR5	ET-428249N	TR C.2SC2412K R,S T146T08E
TR6	ET-429897N	TR C.DTC144EKA T146T08E
TR7	ET-433072N	TR C.DTC114TKA T146T08E
TR8	ET-421999N	TR C.UN221D TXT08E
TR10	ET-428249N	TR C.2SC2412K R,S T146T08E
TR11	ET-428249N	TR C.2SC2412K R,S T146T08E
TR12	ET-428249N	TR C.2SC2412K R,S T146T08E
TR13	ET-429897N	TR C.DTC144EKA T146T08E
TR14	ET-428249N	TR C.2SC2412K R,S T146T08E
TR16	ET-429897N	TR C.DTC144EKA T146T08E
TR17	ET-421984N	TR C.UN211D TXT08E
TR18	ET-433072N	TR C.DTC114TKA T146T08E
TR101	ET-428249N	TR C.2SC2412K R,S T146T08E [G757,G855,G856,G858]
TR102	ET-428249N	TR C.2SC2412K R,S T146T08E [G757,G855,G856,G858]
TR103	ET-428249N	TR C.2SC2412K R,S T146T08E [G757,G855.G856,G858]
TR104	ET-428249N	TR C.2SC2412K R,S T146T08E [G757,G855.G856,G858]
TR105	ET-428249N	TR C.2SC2412K R,S T146T08E [G757,G855.G856,G858]
TR106	ET-428249N	TR C.2SC2412K R,S T146T08E [G757,G855.G856,G858]
TR107	ET-428248N	TR C.2SA1037AK R,S T146T08E [G757,G855.G856,G858]
TR108	ET-428249N	TR C.2SC2412K R,S T146T08E [G757,G855.G856,G858]
TR109	ET-428400N	TR C.DTC143EKA T146T08E [G757,G855.G856,G858]
TR110	ET-428249N	TR C.2SC2412K R,S T146T08E [G757,G855.G856,G858]
TR111	ET-428249N	TR C.2SC2412K R,S T146T08E [G757,G855,G856,G858]
TR112	ET-428249N	TR C.2SC2412K R,S T146T08E [G757,G855,G856,G858]
TR113	ET-428249N	TR C.2SC2412K R,S T146T08E [G757,G855,G856,G858]
TR114	ET-428249N	TR C.2SC2412K R,S T146T08E [G757,G855,G856,G858]
TR115	ET-428249N	TR C.2SC2412K R,S T146T08E [G757,G855,G856,G858]
TR116	ET-428249N	TR C.2SC2412K R,S T146T08E [G757,G855,G856,G858]
TR302	ET-429896N	TR C.DTA144EKA T146T08E [EDG,EOH,EOG]
TR303	ET-428249N	TR C.2SC2412K R,S T146T08E
TR304	ET-428248N	TR C.2SA1037AK R,S T146T08E
TR305	ET-429897N	TR C.DTC144EKA T146T08E
TR307	ET-428249N	TR C.2SC2412K R,S T146T08E
TR308	ET-429897N	TR C.DTC144EKA T146T08E
TR309	ET-428249N	TR C.2SC2412K R,S T146T08E
TR310	ET-428248N	TR C.2SA1037AK R,S T146T08E [EOG-VD]
TR311	ET-429898N	TR C.DTA114EKA T146T08E
TR312	ET-429897N	TR C.DTC144EKA T146T08E
TR313	ET-428249N	TR C.2SC2412K R,S T146T08E
TR314	ET-428249N	TR C.2SC2412K R,S T146T08E
TR315	ET-428248N	TR C.2SA1037AK R,S T146T08E
TR316	ET-429897N	TR C.DTC144EKA T146T08E
TR317	ET-428249N	TR C.2SC2412K R,S T146T08E
TR318	ET-429898N	TR C.DTA114EKA T146T08E [EDG,EOG,G855/G856EOH]

Ref. No.	Part No.	Description
VR101	EV-416720N	R S-FIX H T05EVNDXAA03 0.1W471 [G757,G855,G856,G858]
VR102	EV-416720N	R S-FIX H T05EVNDXAA03 0.1W471 [G757,G855,G856,G858]
VR103	EV-394962N	R S-FIX H T05EVNDXAA03 0.1W102 [G757,G855,G856,G858]
VR104	EV-389476N	R S-FIX H T05EVNDXAA03 0.1W103 [G757,G855,G856,G858]
X301	EI-405660N	OSC X'TAL HC-49U 4.433619MHZ

16. PRE-AMP P.C. BOARD

Ref. No.	Part No.	Description
D501	ED-307573N	D SILICON H 1SS131T-77 T26
D530	ED-307573N	D SILICON H 1SS131T-77 T26
D531	ED-307573N	D SILICON H 1SS131T-77 T26
IC501	EI-433036N	IC LA7416
IC530	EI-433037N	IC LA7256
L501	EO-345881N	COIL FIX 1 EL0606SKI 101J
L530	EO-422477N	COIL FIX 1 LF-5.0S T26 470J
L531	EO-422477N	COIL FIX 1 LF-5.0S T26 470J
L532	EO-422479N	COIL FIX 1 LF-5.0S T26 330J
PS519	EJ-408851N	SOCKET HOUSING 5062-30-10-06
P506	EJ-433106N	SOCKET 00 6216 009 110 9P
P507	EJ-433915N	SOCKET 00 6216 011 110 11P
P517	EJ-422569N	SOCKET TKC-F12X-E1 12P
P518	EJ-422094N	SOCKET TKC-F06X-E1 6P
TR502	ET-429897N	TR C.DTC144EKA T146T08E
TR503	ET-429897N	TR C.DTC144EKA T146T08E
TR504	ET-429897N	TR C.DTC144EKA T146T08E
TR505	ET-429897N	TR C.DTC144EKA T146T08E
TR506	ET-428249N	TR C.2SC2412K R,S T146T08E
TR530	ET-429899N	TR C.DTA144TKA T146T08E
TR532	ET-392663N	TR 2SC1740S R,S T05
TR533	ET-392663N	TR 2SC1740S R,S T05
WF519	EW-433084N	CORD FFC ES P1.25 L70 6P

17. D-MULTI P.C. BOARD (EA,EOG,EOH-D)

Ref. No.	Part No.	Description
FL701	EH-394947N	FILTER CE SFT5.74MA
FL702	EH-394948N	FILTER CE SFT5.5MA
IC701	EI-389644N	IC BA403
IC702	EI-389644N	IC BA403
IC703	EI-416611J	IC TDA8417
L701	EO-422488N	COIL FIX 1 LF-5.0S T26 100J
L702	EO-422488N	COIL FIX 1 LF-5.0S T26 100J
L703	EO-410256N	COIL FIX 1 EL0405RA T05 100J
TR701	ET-392663N	TR 2SC1740S R,S T05
TR702	ET-392663N	TR 2SC1740S R,S T05
TR703	ET-392663N	TR 2SC1740S R,S T05
TR704	ET-392663N	TR 2SC1740S R,S T05
VL701	EO-416928N	COIL TUN 1 V1173-035 5.74
VL702	EO-416926N	COIL TUN 1 V1173-033 5.5
VR701	EV-394962N	R S-FIX H T05EVNDXAA03 0.1W102
X701	EI-425185N	OSC X'TALASP1006 10.000MHZ

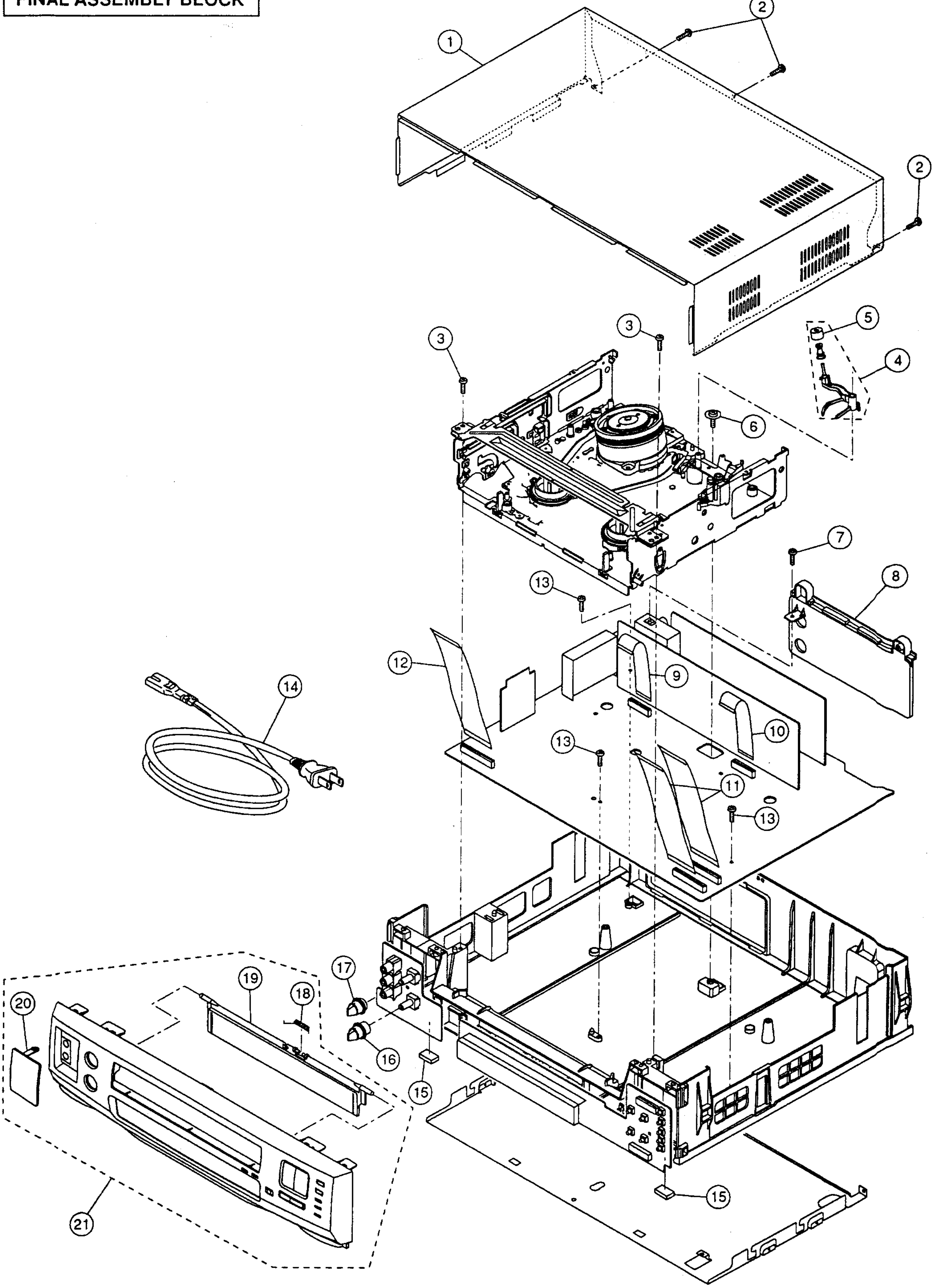
18. D-NICAM P.C. BOARD (EK,EOH-N/DN)

Ref. No.	Part No.	Description
D1	ED-427173N	D VARACTOR MA840-B(TA) T26
D2	ED-307573N	D SILICON H 1SS131T-77 T26
FL101	EH-394947N	FILTER CE SFT5.74MA [EOH-DN]
FL102	EH-394948N	FILTER CE SFT5.5MA [EOH-DN]
IC1	EI-433060J	IC SAA7283GP
IC2	EI-403306N	IC NJM4558L
IC3	EI-403306N	IC NJM4558L
IC101	EI-389644N	IC BA403 [EOH-DN]
IC102	EI-389644N	IC BA403 [EOH-DN]
IC103	EI-416611J	IC TDA8417 [EOH-DN]
L1	EO-403270N	COIL FIX 1 EL0405RA T05 101J
L2	EO-428462N	COIL FIX 1 EL0405RA T05 6R8J
L3	EO-410256N	COIL FIX 1 EL0405RA T05 100J
L4	EO-410256N	COIL FIX 1 EL0405RA T05 100J
L5	EO-432682N	COIL FIX 1 EL0405RA T05 220J
L6	EO-410256N	COIL FIX 1 EL0405RA T05 100J
L101	EO-422488N	COIL FIX 1 LF-5.0S T26 100J [EOH-DN]
L102	EO-422488N	COIL FIX 1 LF-5.0S T26 100J [EOH-DN]
L103	EO-410256N	COIL FIX 1 EL0405RA T05 100J [EOH-DN]
TR101	ET-392663N	TR 2SC1740S R,S T05 [EOH-DN]
TR102	ET-392663N	TR 2SC1740S R,S T05 [EOH-DN]
VL101	EO-416928N	COIL TUN 1 V1173-035 5.74 [EOH-DN]
VL102	EO-416926N	COIL TUN 1 V1173-033 5.5 [EOH-DN]
VR101	EV-394962N	R S-FIX H T05EVNDXAA03 0.1W102 [EOH-DN]
X1	EI-433914N	OSC X'TALAPS1026 8.192MHZ
X101	EI-425185N	OSC X'TALASP1006 10.000MHZ [EOH-DN]

19. VPST P.C. BOARD (EOG-VD)

Ref. No.	Part No.	Description
D1	ED-307573N	D SILICON H 1SS131T-77T26
D2	ED-307573N	D SILICON H 1SS131T-77T26
D3	ED-405329N	D ZENER H HZS3B2 T26
D4	ED-307573N	D SILICON H 1SS131T-77T26
D5	ED-307573N	D SILICON H 1SS131T-77T26
D6	ED-307573N	D SILICON H 1SS131T-77T26
D7	ED-307573N	D SILICON H 1SS131T-77T26
IC1	EI-433029N	IC SDA5273S
IC2	EI-403469N	IC MM1068XS
IC3	EI-422365J	IC CXA1645M
IC4	EI-386393N	IC BA7605N
IC5	EI-422375J	IC MC14013BFR2 FPFR2T32P
IC6	EI-386393N	IC BA7605N
L1	EO-410256N	COIL FIX 1 EL0405RA T05100J
L2	EO-410256N	COIL FIX 1 EL0405RA T05100J
L3	EO-410256N	COIL FIX 1 EL0405RA T05100J
L4	EO-410256N	COIL FIX 1 EL0405RA T05100J
L6	EO-419251N	COIL FIX 1 EL0405RA T05150J
TR1	ET-416932N	TR C.2SB709A R,S TXT08E
TR2	ET-416932N	TR C.2SB709A R,S TXT08E
TR3	ET-428400N	TR C.DTC143EKA T146T08E
TR4	ET-392663N	TR 2SC1740S R,S T05
TR5	ET-429897N	TR C.DTC144EKA T146T08E
TR6	ET-416932N	TR C.2SB709A R,S TXT08E
TR7	ET-416933N	TR C.2SD601A R,S TXT08E
TR8	ET-416932N	TR C.2SB709A R,S TXT08E
TR9	ET-416932N	TR C.2SB709A R,S TXT08E
TR10	ET-416932N	TR C.2SB709A R,S TXT08E
TR11	ET-416933N	TR C.2SD601A R,S TXT08E
TR12	ET-429897N	TR C.DTC144EKA T146T08E
TR13	ET-416933N	TR C.2SD601A R,S TXT08E
TR14	ET-416932N	TR C.2SB709A R,S TXT08E
TR15	ET-416932N	TR C.2SB709A R,S TXT08E
TR16	ET-416933N	TR C.2SD601A R,S TXT08E
TR17	ET-416933N	TR C.2SD601A R,S TXT08E
TR18	ET-416933N	TR C.2SD601A R,S TXT08E
TR19	ET-416933N	TR C.2SD601A R,S TXT08E
TR20	ET-416933N	TR C.2SD601A R,S TXT08E
TR21	ET-416933N	TR C.2SD601A R,S TXT08E
X1	EI-403467J	OSC CE CSB500F40 15.68KHZ
X2	EI-433030N	OSC CE CSA20.48MXZ04

FINAL ASSEMBLY BLOCK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20. FINAL ASSEMBLY BLOCK

Ref. No.	Part No.	Description
1	SP-434622N	COVER UPPER NHX (SG)
2	ZS-393515N	BT BID30X10STL BZN (SG)
3	ZS-426412N	BT BID30X10STL CMT (SG)
4	HZ-428509N	HEAD CLEANER PART (SG)
5	HZ-417681N	ROLLER HEAD CLEANER(2) (SG)
6	ZS-426416N	BT PAN30X10STL CMT C080 (SG)
7	ZS-323728N	BID30X05STL CMT (SG)
8-A	SP-429705N	PANEL REAR JACK EA3 (SG) [EA]
8-B	SP-433448N	PANEL REAR JACK EK4 (SG) [G745/G746EK,G755EOH[E]]
8-C	SP-429712N	PANEL REAR JACK EOH5 (SG) [G740/G745EOH]
8-D	SP-429702N	PANEL REAR JACK EK2 (SG) [G755EOH[S]]
8-E	SP-429708N	PANEL REAR JACK EOG3 (SG) [G757EOG]
8-F	SP-429706N	PANEL REAR JACK EDG3 (SG) [G855EDG]
8-G	SP-429707N	PANEL REAR JACK EK3 (SG) [G855EK]
8-H	SP-429711N	PANEL REAR JACK EOH4 (SG) [G855/G856EOH]
8-I	SP-429710N	PANEL REAR JACK EOG4 (SG) [G858EOG]
9	EW-432987N	CORD FFC BD P1.25 L100 9P
10	EW-433082N	CORD FFC BD P1.25 L100 11P
11-A	EW-422531N	CORD FFC BD P1.25 L150 16P [G740,G745,G746,G755,G757]
11-B	EW-422530J	CORD FFC BD P1.25 L150 18P [G855,G856,G858]
12-A	EW-432984N	CORD FFC BD P1.25 L130 7P [G745EA,G740/G745EOH,G755EOH[S], G757EOG]
12-B	EW-432986N	CORD FFC BD P1.25 L130 9P [G745/G746EK,G755EOH[E]]
12-C	EW-422531N	CORD FFC BD P1.25 L150 16P [G855,G856,G858]
13	ZS-376521N	BT BID30X08STL CMT (SG)
14-A	⚠ EW-425599N	AC CORD 200S CW2101CW4771 B S [EA,G755EOH[S]]
14-B	⚠ EW-430842N	AC CORD 200S SF200 SF201 E [EXCEPT EA,G755EOH[S]]
15	SA-422907N	FOOT AX (SG)
16	SK-433308N	KNOB LEVEL(2) [G855,G856,G858]
17	SK-433307N	KNOB LEVEL(1) [G855,G856,G858]
18	ZG-429541N	SP MASK(4) (SG)
19-A	SE-433858N1	MASK CASSETTE VS-G740(E) (SG) [G740EOH]
19-B	SE-433632N1	MASK CASSETTE VS-G745(E) (SG) [G745EA]
19-C	SE-433633N1	MASK CASSETTE VS-G745(E2) (SG) [G745EK]
19-D	SE-433634N1	MASK CASSETTE VS-G745(E3) (SG) [G745EOH]
19-E	SE-433635N1	MASK CASSETTE VS-G746(E) (SG) [G746EK]
19-F	SE-433832N1	MASK CASSETTE VS-G755(E2) (SG) [G755EOH[S]]
19-G	SE-433636N1	MASK CASSETTE VS-G755(E) (SG) [G755EOH[E]]
19-H	SE-433637N1	MASK CASSETTE VS-G757(G) (SG) [G757EOG]
19-I	SE-433496N1	MASK CASSETTE VS-G855(E) (SG) [G855EA]
19-J	SE-433497N1	MASK CASSETTE VS-G855(E2) (SG) [G855EDG]
19-K	SE-433498N1	MASK CASSETTE VS-G855(E3) (SG) [G855EK]
19-L	SE-433499N1	MASK CASSETTE VS-G855(E4) (SG) [G855EOH]
19-M	SE-433500N1	MASK CASSETTE VS-G856(E) (SG) [G856EOH]
19-N	SE-433501N1	MASK CASSETTE VS-G858(G) (SG) [G858EOG]
20-A	SE-433488N	DOOR JACK(D)E1 (SG) [G740,G745,G746,G755]
20-B	SE-433489N	DOOR JACK(D)G1 (SG) [G757EOG]
20-C	SE-433303N	DOOR JACK(E)E1 (SG) [G855,G856]
20-D	SE-433305N	DOOR JACK(E)G1 (SG) [G858EOG]
21-A	BD-433865N	PANEL F(D)G740EOH-D PART (SG)
21-B	BD-433400N	PANEL F(D)G745EA-D PART (SG)
21-C	BD-433401N	PANEL F(D)G745EK-N PART (SG)
21-D	BD-433402N	PANEL F(D)G745EOH-D PART (SG)
21-E	BD-433459N	PANEL F(D)G746EK-N PART (SG)
21-F	BD-433852N	PANEL F(D)G755EOH-N(S) PART(SG)
21-G	BD-433403N	PANEL F(D)G755EOH-N(E)PART(SG)
21-H	BD-433406N	PANEL F(D)G757EOG-D PART (SG)
21-I	BD-433349N	PANEL F(E)G855EA-D PART (SG)
21-J	BD-433351N	PANEL F(E)G855EDG PART (SG)
21-K	BD-433352N	PANEL F(E)G855EK-N PART (SG)
21-L	BD-433353N	PANEL F(E)G855EOH-D PART (SG)
21-M	BD-433354N	PANEL F(E)G856EOH-DN PART (SG)
21-N	BD-433355N	PANEL F(E)G858EOG-VD PART (SG)

NOTE :
Parts will not be supplied if they are not listed in the parts list, even if they appear on the assembling illustrations with reference No.

21. ACCESSORY

Ref. No.	Part No.	Description
1	EW-348414N	CORD PAL
2-A	AV-433946N	REMOCON RC-X156E [G740EOH]
2-B	AV-433021N	REMOCON RC-X176E [G745EOH]
2-C	AV-433019N	REMOCON RC-X186E [G745EA,G755EOH[S]]
2-D	AV-432801N	REMOCON RC-X477G [G858EOG]
2-E	AV-433075N	REMOCON RC-X566E [G745/G746EK]
2-F	AV-433022N	REMOCON RC-X576E [G755EOH[E]]
2-G	AV-433024N	REMOCON RC-X576G [G757EOG]
2-H	AV-433027N1	REMOCON RC-X667E [G855EK]
2-I	AV-432802N	REMOCON RC-X677E [G855EDG,G855/G856EOH]
2-J	AV-432806N	REMOCON RC-X687E [G855EA]
3-A	SP-733735J	LID AX SHOWVIEW-2(GER) [RC-X477G]
3-B	SP-733722J	LID AX VIDEO PLUS-1 [RC-X566E]
3-C	SP-733738J	LID AX VIDEO PLUS-2 [RC-X667E]
3-D	SP-733723J	LID AX SHOWVIEW-1 [RC-X576E/G]
3-E	SP-733736J	LID AX SHOWVIEW-2(ENG) [RC-X677E]
3-F	SP-733753J	LID AX G-CODE-3 [RC-X687E]
4	SC-733720J1	COVER BATTERY (GX) [EXCEPT RC-X156/176/186E]

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AV433022N	21-2-F
AV433024N	21-2-G
AV433027N1	21-2-H
AV433075N	21-2-E
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BAF5001V010D	5-3-E
BAF5001V010E	5-3-F
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BAV1229Q600H	5-1-A
BAV1229Q605C	5-1-K
BAV1229Q605D	5-1-L
BAV1229Q605E	5-1-M
BAV1229Q605F	5-1-N
BAV1229Q700B	5-2-B
BAV1229Q700C	5-2-C
BAV1229Q700E	5-2-E
BAV1229Q705C	5-2-H
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SE433489N	20-20-B
SE433496N1	20-19-I
SE433497N1	20-19-J
SE433498N1	20-19-K
SE433499N1	20-19-L
SE433500N1	20-19-M
SE433501N1	20-19-N
SE433632N1	20-19-B
SE433633N1	20-19-C
SE433634N1	20-19-D
SE433635N1	20-19-E
SE433636N1	20-19-G
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ZS393515N	20-2
ZS403887N	3-18
ZS418480J	3-39
ZS418616J	3-4
ZS422170J	3-37
ZS425981	4-4
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ZS575392	3-36
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AKAI

MODEL VS-G740 series
MODEL VS-G750 series
MODEL VS-G850 series

SCHEMATIC DIAGRAMS AND PC BOARDS

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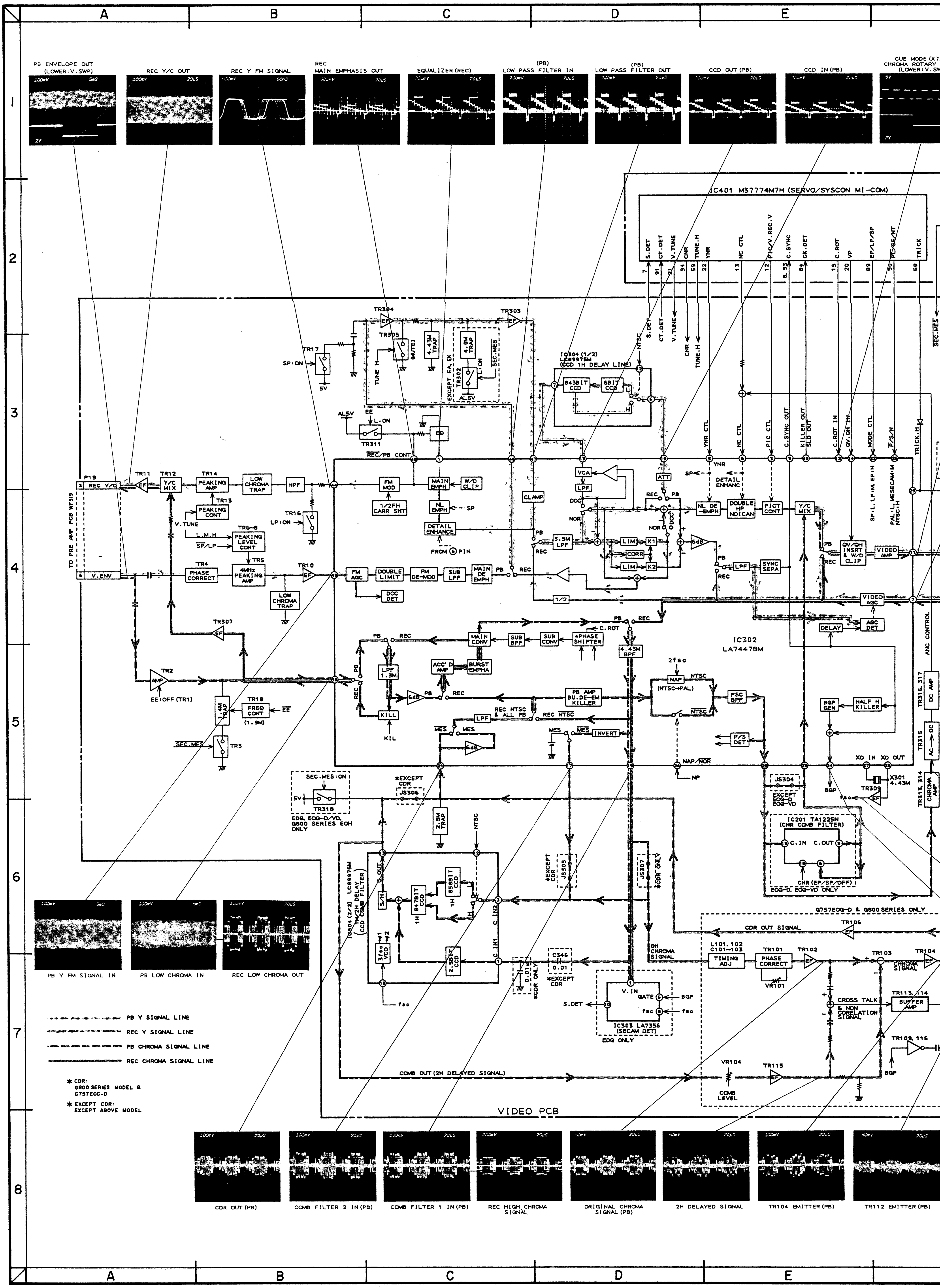
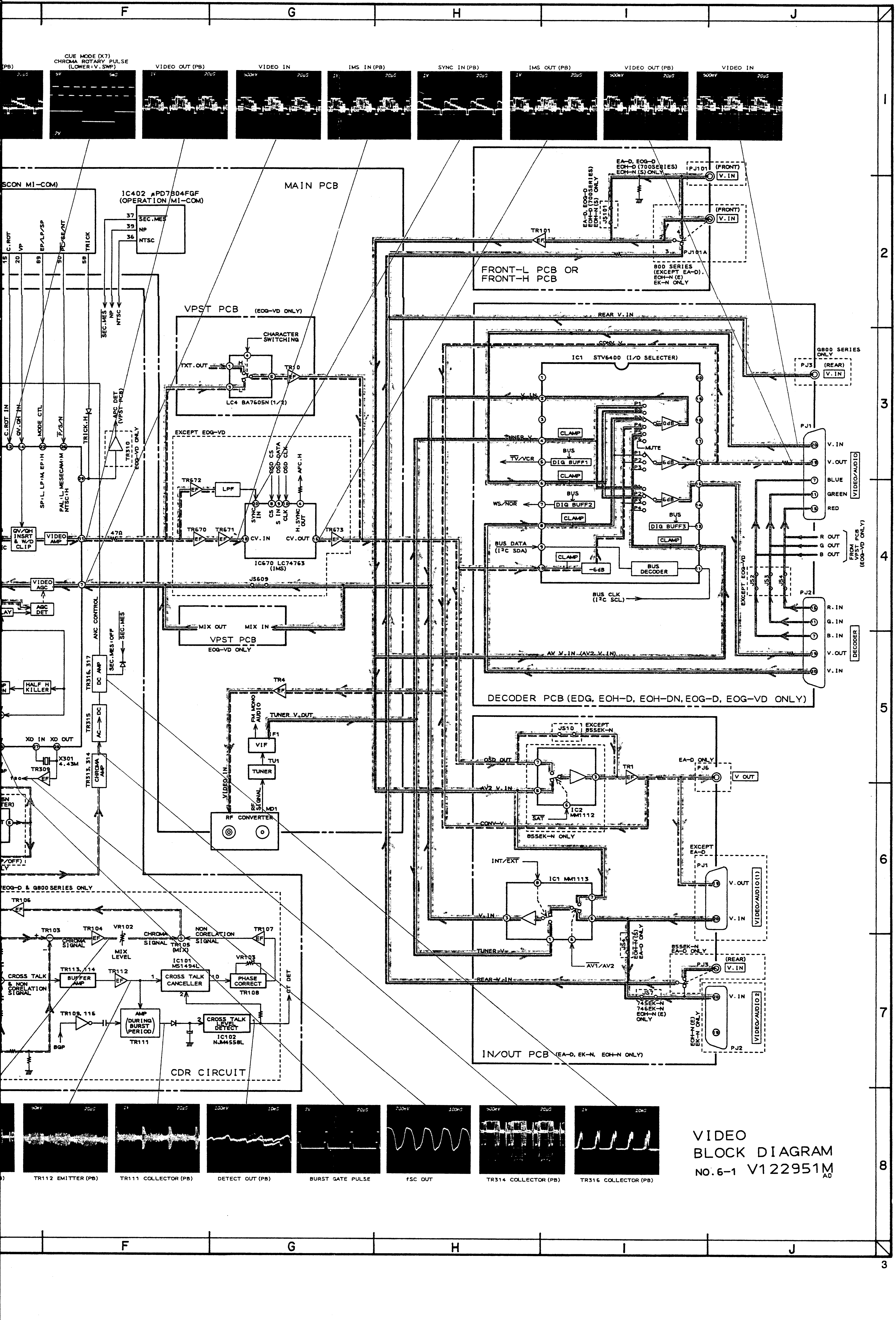
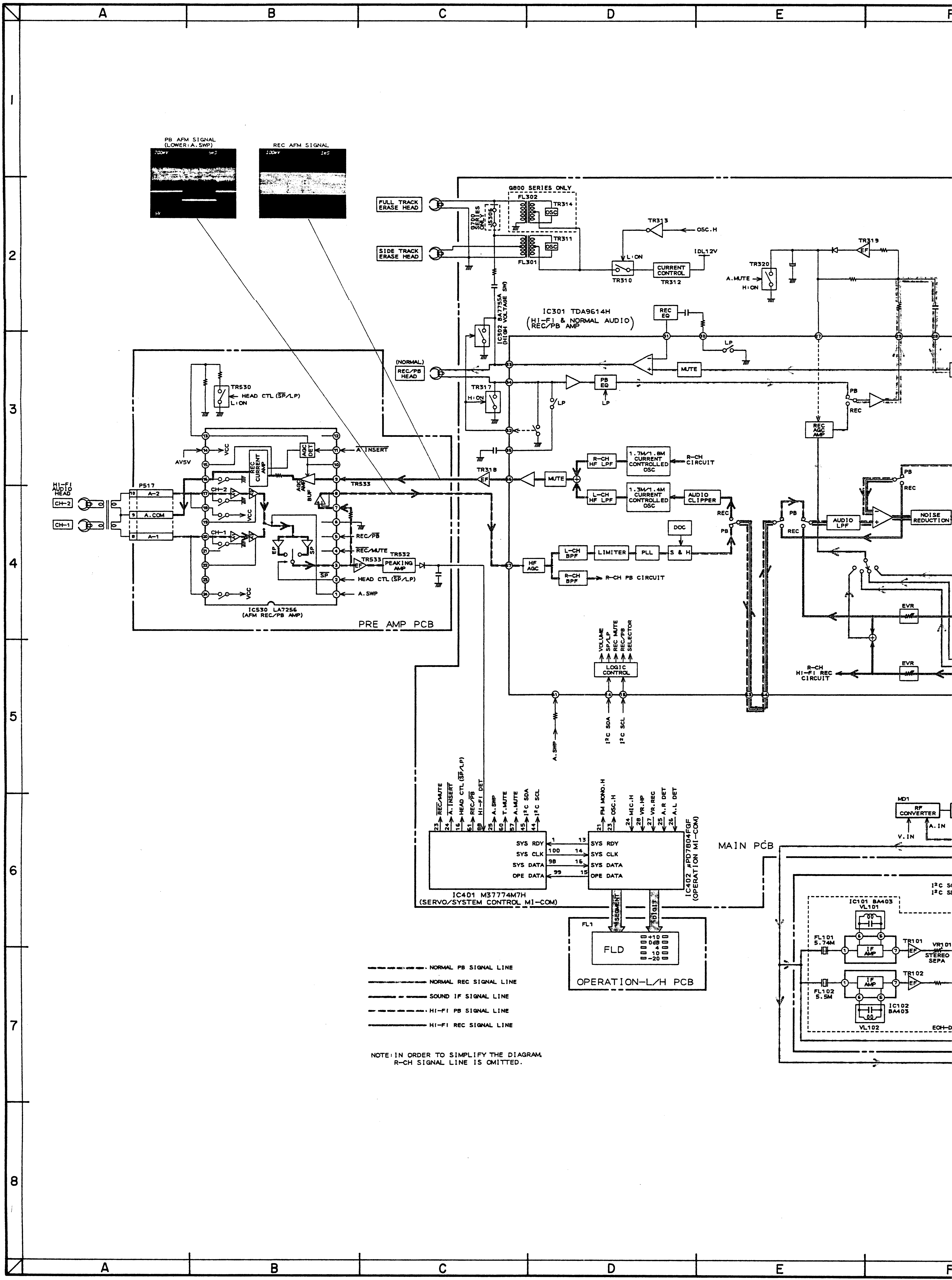
Use these schematic diagrams and PC boards together with the provided service manual.

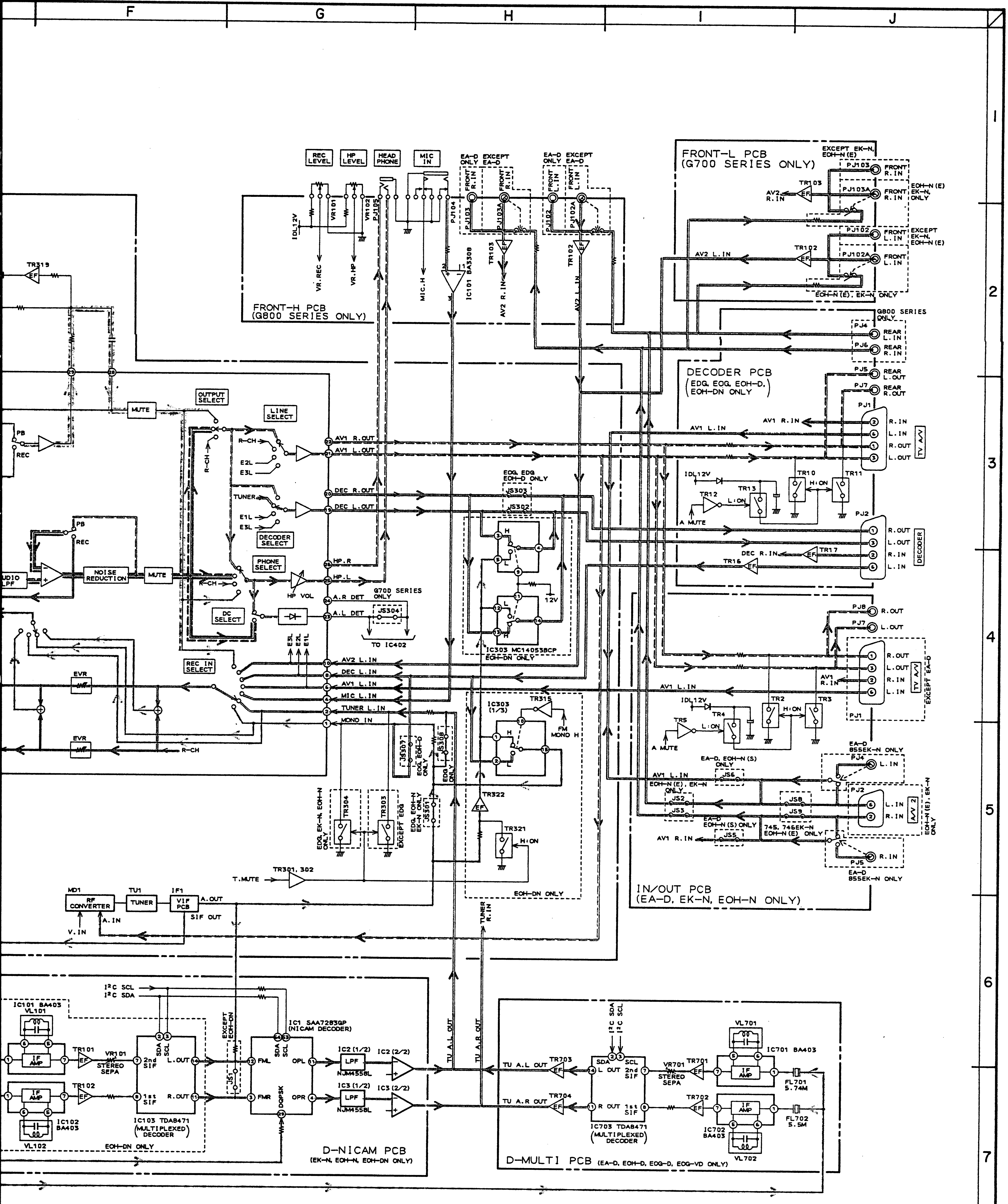

A
B
C
D
E
1
2
3
4
5
6
7
8
PB ENVELOPE OUT (LOWER: V.SWP)
REC Y/C OUT
REC Y FM SIGNAL
REC MAIN EMPHASIS OUT
EQUALIZER (REC)
(PB) LOW PASS FILTER IN
(PB) LOW PASS FILTER OUT
CCD OUT (PB)
CCD IN (PB)
CUE MODE (X7 CHROMA ROTARY (LOWER: V.SW
IC401 M37774M7H (SERVO/SYSCON MI-COM)
S.DET
CT.DET
V.TUNE
CNR
TUNE.H
YNR
NC CTL
PIC/V.REC.V
C.SYNC
CK.DET
C.ROT
VP
EP/LP/SP
PL/SE/NT
TRICK
TO PRE AMP PCB WF519
P19
REC Y/C
V.ENV
TR11
TR12
Y/C MIX
TR14
PEAKING AMP
TR13
PEAKING CONT
LOW CHROMA TRAP
HPF
TR6-8
PEAKING LEVEL CONT
V.TUNE
L.M.H
SP/LP
TR5
4MHz PEAKING AMP
TR4
PHASE CORRECT
TR10
EF
LOW CHROMA TRAP
TR16
LP:ON
TR17
SP:ON
5V
TR304
TR305
TUNE H
(MUTE)
4.43M TRAP
EXCEPT EA, EK
TR302
4.0M TRAP
L:ON
SEC.MES
AL5V
TR303
TR311
EE
EQ
REC/PB CONT
FM MOD
1/2FH CARR SHT
MAIN EMPH
W/D CLIP
NL EMPH
SP
DETAIL ENHANCE
FROM ⑥ PIN
FM AGC
DOC DET
DOUBLE LIMIT
FM DE-MOD
SUB LPF
MAIN DE EMPH
PB
REC
CLAMP
3.5M LPF
1/2
IC304 (1/2) LC89975M (CCD 1H DELAY LINE)
843BIT CCD
6BIT CCD
NTSC
VCA
LPF
DOC
NOR
LIM
K1
CORR
K2
6dB
ATT
NL DE-EMPH
DETAIL ENHANC
DOUBLE HP NOICAN
PICT CONT
Y/C MIX
LPF
SYNC SEPA
QV/QH INSRT & W/D CLIP
VIDEO AMP
VIDEO AGC
AGC DET
DELAY
YNR CTL
NC CTL
PIC CTL
C.SYNC OUT
KILLER OUT SLD OUT
C.ROT IN
QV.QH IN
MODE CTL
SP:L, LP:M, EP:H
P/S/N
PAL:L, MESECAM:M NTSC:H
TRICK.H
ANC CONTROL
TR307
TR2
AMP
EE:OFF (TR1)
1.4M TRAP
TR18
FREQ CONT (1.9M)
EE
SEC.MES
TR3
MAIN CONV
SUB BPF
SUB CONV
4PHASE SHIFTER
C.ROT
4.43M BPF
LPF 1.3M
ACC'D AMP
BURST EMPHA
KILL
KIL
6dB
PB AMP BU.DE-EM KILLER
REC NTSC & ALL PB
REC NTSC
MES
INVERT
IC302 LA7447BM
2fsc
NAP (NTSC→PAL)
NTSC
FSC BPF
P/S DET
NAP/NOR
NP
BGP GEN
HALF H KILLER
XO IN
XO OUT
X301 4.43M
TR309
BGP
fsc
TR316, 317 DC AMP
TR315 AC→DC
TR313, 314 CHROMA AMP
SEC.MES:ON
5V
TR318
EDG, EOG-D/VD, G800 SERIES EOH ONLY
*EXCEPT CDR JS306
2.5M TRAP
JS304
EXCEPT EOG-D EOG-VD
IC201 TA1225N (CNR COMB FILTER)
C.IN
C.OUT
CNR (EP/SP/OFF)
EOG-D, EOG-VD ONLY
IC304 (2/2) LC89975M 1H/2H DELAY (CCD COMB FILTER)
C.OUT
S/H
847BIT CCD
858BIT CCD
1H
3fsc VCO
2.5BIT CCD
C IN1
C IN2
fsc
*EXCEPT CDR JS305
JS307 *CDR ONLY
0.01 *CDR ONLY
C346 0.01 *EXCEPT CDR
2H CHROMA SIGNAL
IC303 LA7356 (SECAM DET)
EDG ONLY
V.IN
GATE
S.DET
G757EOG-D & G800 SERIES ONLY
CDR OUT SIGNAL
TR106
L101, 102 C101~103 TIMING ADJ
TR101 PHASE CORRECT
VR101
TR102
TR103
TR104
CHROMA SIGNAL
CROSS TALK & NON CORELATION SIGNAL
TR113, 114 BUFFER AMP
TR109, 116
VR104
COMB LEVEL
TR115
COMB OUT (2H DELAYED SIGNAL)
VIDEO PCB
PB Y FM SIGNAL IN
PB LOW CHROMA IN
REC LOW CHROMA OUT
PB Y SIGNAL LINE
REC Y SIGNAL LINE
PB CHROMA SIGNAL LINE
REC CHROMA SIGNAL LINE
* CDR: G800 SERIES MODEL & G757EOG-D
* EXCEPT CDR: EXCEPT ABOVE MODEL
CDR OUT (PB)
COMB FILTER 2 IN (PB)
COMB FILTER 1 IN (PB)
REC HIGH CHROMA SIGNAL
ORIGINAL CHROMA SIGNAL (PB)
2H DELAYED SIGNAL
TR104 EMITTER (PB)
TR112 EMITTER (PB)


F
G
H
I
J
1
2
3
4
5
6
7
8
CUE MODE (X7) CHROMA ROTARY PULSE (LOWER:V.SWP)
VIDEO OUT (PB)
VIDEO IN
IMS IN (PB)
SYNC IN (PB)
IMS OUT (PB)
VIDEO OUT (PB)
VIDEO IN
MAIN PCB
SCON MI-COM
IC402 μPD7804FGF (OPERATION MI-COM)
SEC.MES
NP
NTSC
C.ROT
VP
EP/LP/SP
PL/SE/NT
TRICK
C.ROT IN
QV.QH IN
MODE CTL
P/S/N
TRICK.H
SP:L, LP:M, EP:H
PAL:L, MESECAM:M NTSC:H
APC DET (VPST PCB)
TR310
EOG-VD ONLY
QV/QH INSRT & W/D CLIP
VIDEO AMP
VIDEO AGC
AGC DET
470
HALF H KILLER
ANC CONTROL
SEC.MES:OFF
TR316, 317
DC AMP
TR315
AC→DC
TR313, 314
CHROMA AMP
XO IN
XO OUT
X301 4.43M
TR309
fsc
VPST PCB (EOG-VD ONLY)
CHARACTER SWITCHING
TXT.OUT
TR10
LC4 BA7605N (1/2)
EXCEPT EOG-VD
TR672
LPF
OSD CS
OSD DATA
OSD CLK
AFC.H
SYNC IN
CS
S IN
CLK
H.SYNC OUT
TR670
TR671
CV.IN
CV.OUT
TR673
IC670 LC74763 (IMS)
JS609
MIX OUT
MIX IN
VPST PCB
EOG-VD ONLY
TR4
FM MONO AUDIO
TUNER V.OUT
F1
VIF
TU1
TUNER
VIDEO IN
RF SIGNAL
MD1
RF CONVERTER
EOG-D & G800 SERIES ONLY
TR106
TR103
TR104
VR102
CHROMA SIGNAL
MIX LEVEL
CHROMA SIGNAL
TR105 (MIX)
NON CORELATION SIGNAL
TR107
CROSS TALK & NON CORELATION SIGNAL
TR113, 114
BUFFER AMP
TR112
IC101 MS1494L
CROSS TALK CANCELLER
VR103
PHASE CORRECT
TR108
TR109, 116
BGP
AMP (DURING BURST PERIOD)
TR111
CROSS TALK LEVEL DETECT
IC102 NJM4558L
CT DET
CDR CIRCUIT
EA-D, EOG-D
EOH-D (700SERIES)
EOH-N (S) ONLY
JS101
PJ101
(FRONT)
V.IN
TR101
PJ101A
800 SERIES (EXCEPT EA-D), EOH-N (E) EK-N ONLY
FRONT-L PCB OR FRONT-H PCB
REAR V.IN
CONV.V
IC1 STV6400 (I/O SELECTER)
V.IN
TUNER V
TV/VCR
WS/NOR
BUS DATA (I²C SDA)
CLAMP
BUS
DIG BUFF1
DIG BUFF2
DIG BUFF3
0dB
6dB
-6dB
MUTE
BUS DECODER
BUS CLK (I²C SCL)
AV V.IN (AV2 V.IN)
G800 SERIES ONLY
PJ3
(REAR)
PJ1
V.OUT
BLUE
GREEN
RED
VIDEO/AUDIO
R OUT
G OUT
B OUT
FROM VPST PCB (EOG-VD ONLY)
EXCEPT EOG-VD
JS2
JS3
JS4
PJ2
R.IN
G.IN
B.IN
DECODER
DECODER PCB (EDG, EOH-D, EOH-DN, EOG-D, EOG-VD ONLY)
JS10
EXCEPT 855EK-N
OSD OUT
AV2 V.IN
SAT
IC2 MM1112
CONV-V
855EK-N ONLY
TR1
EA-D ONLY
PJ6
V OUT
INT/EXT
IC1 MM1113
AV1/AV2
TUNER-V
REAR V.IN
EXCEPT EA-D
VIDEO/AUDIO(1)
JS4
EOH-N(S) EA-D ONLY
855EK-N EA-D ONLY
JS7
745EK-N 746EK-N EOH-N (E) ONLY
EOH-N (E) EK-N ONLY
VIDEO/AUDIO 2
IN/OUT PCB (EA-D, EK-N, EOH-N ONLY)
TR112 EMITTER (PB)
TR111 COLLECTOR (PB)
DETECT OUT (PB)
BURST GATE PULSE
fSC OUT
TR314 COLLECTOR (PB)
TR316 COLLECTOR (PB)
3

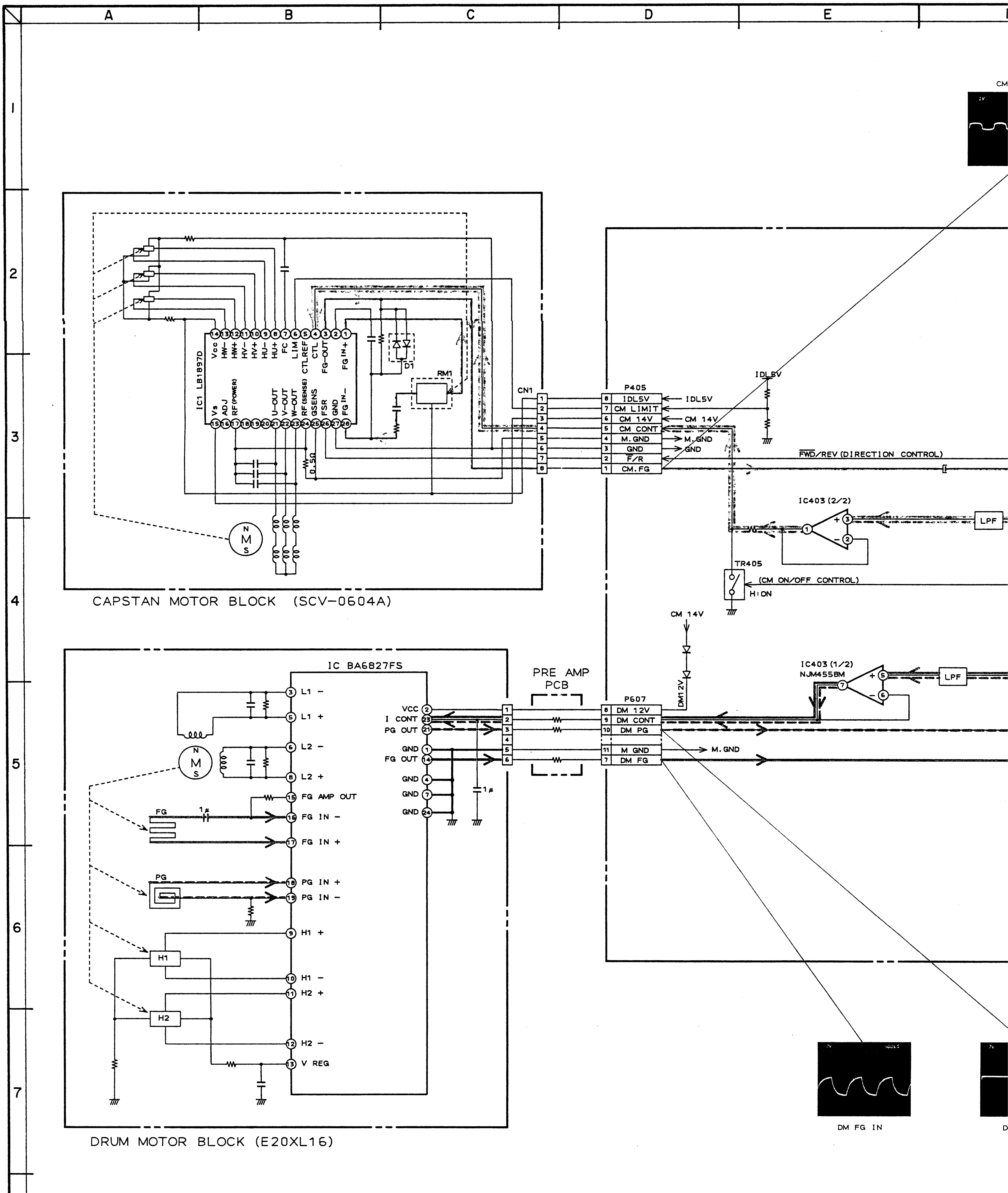
VIDEO
BLOCK DIAGRAM
NO.6-1 V122951M
A0


PB AFM SIGNAL (LOWER: A.SWP)
REC AFM SIGNAL
HI-FI AUDIO HEAD
CH-2
CH-1
P517
A-2
A.COM
A-1
AV5V
VCC
TR530
HEAD CTL (SP/LP)
L:ON
REC CURRENT AMP
AGC DET
AGC AMP
BUF
A.INSERT
REC/PB
REC/MUTE
SP
EP
TR533
TR532
PEAKING AMP
HEAD CTL (SP/LP)
A.SWP
IC530 LA7256 (AFM REC/PB AMP)
PRE AMP PCB
FULL TRACK ERASE HEAD
SIDE TRACK ERASE HEAD
G700 SERIES ONLY
JS306
G800 SERIES ONLY
FL302
TR314
OSC
TR311
FL301
TR313
OSC.H
L:ON
TR310
CURRENT CONTROL
TR312
IDL12V
TR320
A.MUTE
H:ON
TR319
EF
IC302 BA7755A (HIGH VOLTAGE SW)
IC301 TDA9614H (HI-FI & NORMAL AUDIO) REC/PB AMP
(NORMAL) REC/PB HEAD
TR317
H:ON
REC EQ
LP
MUTE
PB EQ
PB
REC
REC AGC AMP
TR318
R-CH HF LPF
1.7M/1.8M CURRENT CONTROLLED OSC
R-CH CIRCUIT
L-CH HF LPF
1.3M/1.4M CURRENT CONTROLLED OSC
AUDIO CLIPPER
AUDIO LPF
NOISE REDUCTION
DOC
HF AGC
L-CH BPF
LIMITER
PLL
S & H
R-CH BPF
R-CH PB CIRCUIT
EVR
R-CH HI-FI REC CIRCUIT
LOGIC CONTROL
VOLUME
SP/LP
REC MUTE
REC/PB
SELECTOR
I²C SDA
I²C SCL
A.SWP
REC/MUTE
A.INSERT
HEAD CTL (SP/LP)
REC/PB
HI-FI DET
A.SWP
T.MUTE
A.MUTE
I²C SDA
I²C SCL
SYS RDY
SYS CLK
SYS DATA
OPE DATA
IC401 M37774M7H (SERVO/SYSTEM CONTROL MI-COM)
FM MONO.H
OSC.H
MIC.H
VR.HP
VR.REC
A.R DET
A.L DET
IC402 µPD7804FGF (OPERATION MI-COM)
SEGMENT
DIGIT
FL1
FLD
+10
0dB
4
10
-20
OPERATION-L/H PCB
MAIN PCB
MD1
RF CONVERTER
V.IN
A.IN
I²C S
I²C S
IC101 BA403
VL101
FL101 5.74M
IF AMP
TR101
EF
VR101
STEREO SEPA
FL102 5.5M
TR102
IC102 BA403
VL102
EOH-D
NORMAL PB SIGNAL LINE
NORMAL REC SIGNAL LINE
SOUND IF SIGNAL LINE
HI-FI PB SIGNAL LINE
HI-FI REC SIGNAL LINE
A
B
C
D
E
F
1
2
3
4
5
6
7
8

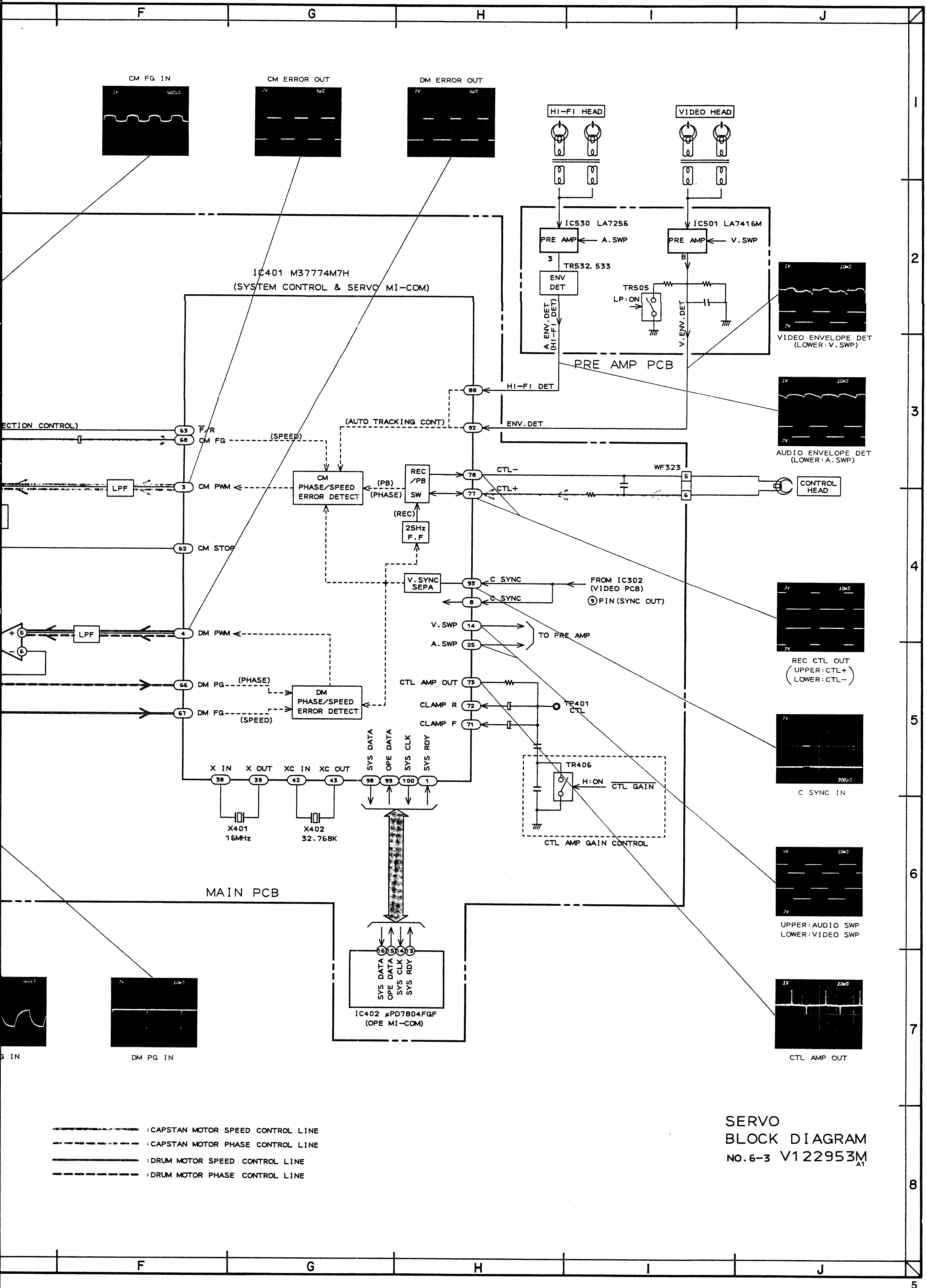
NOTE: IN ORDER TO SIMPLIFY THE DIAGRAM, R-CH SIGNAL LINE IS OMITTED.


F
G
H
I
J
1
2
3
4
5
6
7
8
REC LEVEL
HP LEVEL
HEAD PHONE
MIC IN
IDL12V
VR101
VR102
VR.REC
VR.HP
MIC.H
PJ105
PJ104
IC101 BA3308
FRONT-H PCB
(G800 SERIES ONLY)
EA-D ONLY
EXCEPT EA-D
FRONT R.IN
FRONT L.IN
PJ103
PJ103A
PJ102
PJ102A
TR103
TR102
AV2 R.IN
AV2 L.IN
FRONT-L PCB
(G700 SERIES ONLY)
EXCEPT EK-N, EOH-N (E)
EOH-N (E) EK-N, ONLY
EXCEPT EK-N, EOH-N (E)
EOH-N (E), EK-N ONLY
G800 SERIES ONLY
PJ4
PJ6
REAR L.IN
REAR R.IN
PJ5
PJ7
REAR L.OUT
REAR R.OUT
DECODER PCB
(EDG, EOG, EOH-D, EOH-DN ONLY)
PJ1
AV1 R.IN
AV1 L.IN
R.IN
L.IN
R.OUT
L.OUT
TV A/V
TR10
TR11
TR12
TR13
H:ON
L:ON
A MUTE
PJ2
DECODER
DEC R.IN
TR16
TR17
TR319
PB
REC
AUDIO LPF
NOISE REDUCTION
MUTE
OUTPUT SELECT
LINE SELECT
R-CH
E2L
E3L
E1L
TUNER
DECODER SELECT
PHONE SELECT
HP VOL
DC SELECT
REC IN SELECT
EVR
AV1 R.OUT
AV1 L.OUT
DEC R.OUT
DEC L.OUT
HP.R
HP.L
A.R DET
A.L DET
G700 SERIES ONLY
JS304
TO IC402
AV2 L.IN
DEC L.IN
AV1 L.IN
MIC L.IN
TUNER L.IN
MONO IN
EDG, EDG EOH-D ONLY
JS303
JS302
IC303 MC14053BCP
EOH-DN ONLY
12V
IC303 (1/3)
TR315
FM MONO H
JS307
JS308
EDG ONLY
EDG, EOH-D ONLY
EDG, EOH-N EK-N ONLY
JS301
EDG, EK-N, EOH-N ONLY
TR304
TR303
EXCEPT EDG
TR322
TR321
TR301, 302
T.MUTE
MD1
RF CONVERTER
TU1
TUNER
IF1
VIF PCB
A.OUT
SIF OUT
A.IN
V.IN
TUNER R.IN
PJ8
R.OUT
L.OUT
EXCEPT EA-D
TR2
TR3
TR4
TR5
EA-D, EOH-N (S) ONLY
JS6
EOH-N (E), EK-N ONLY
JS2
JS3
JS8
JS9
EA-D EOH-N (S) ONLY
JS5
745, 746EK-N EOH-N (E) ONLY
EA-D 855EK-N ONLY
A/V 2
IN/OUT PCB
(EA-D, EK-N, EOH-N ONLY)
I²C SCL
I²C SDA
IC101 BA403
VL101
IF AMP
TR101
VR101
STEREO SEPA
TR102
IC102 BA403
VL102
IC103 TDA8471
(MULTIPLEXED) DECODER
2nd SIF
1st SIF
SDA
SCL
L.OUT
R.OUT
EOH-DN ONLY
EXCEPT EOH-DN
JS1
FML
FMR
DQPSK
IC1 SAA7283GP
(NICAM DECODER)
OPL
OPR
IC2 (1/2)
IC2 (2/2)
IC3 (1/2)
IC3 (2/2)
LPF
NJM4558L
D-NICAM PCB
(EK-N, EOH-N, EOH-DN ONLY)
TU A.L OUT
TU A.R OUT
TR703
TR704
IC703 TDA8471
(MULTIPLEXED) DECODER
VR701
TR701
TR702
IC701 BA403
IC702 BA403
VL701
VL702
FL701 5.74M
FL702 5.5M
D-MULTI PCB (EA-D, EOH-D, EOG-D, EOG-VD ONLY)

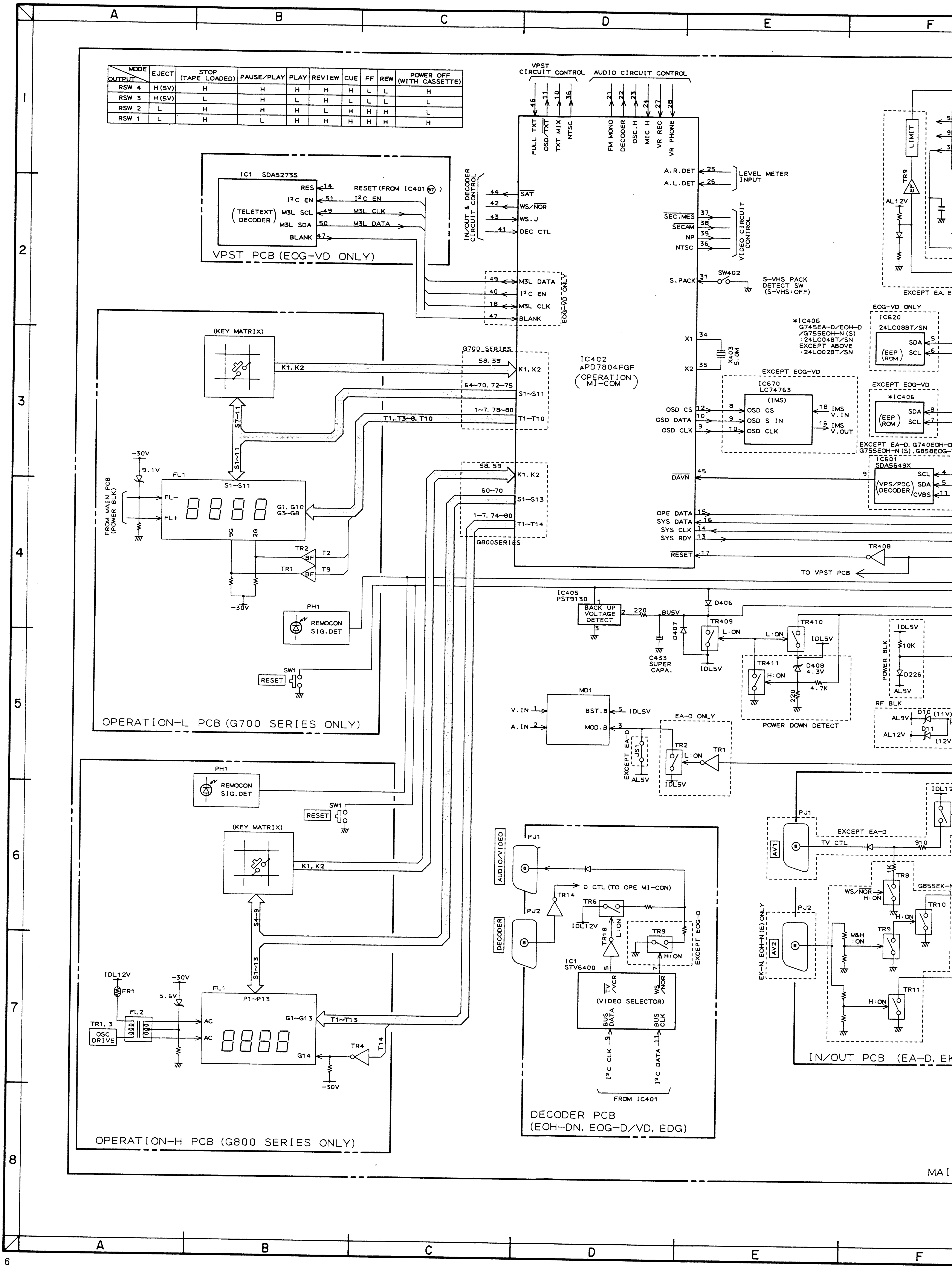
AUDIO
BLOCK DIAGRAM
NO.6-2 V122952M A1


A
B
C
D
E
1
2
3
4
5
6
7
8
IC1 LB1897D
Vcc
HW−
HW+
HV−
HV+
HU−
HU+
FC
LIM
CTLREF
CTL
FG−OUT
FG IN+
Vs
ADJ
RF (POWER)
U−OUT
V−OUT
W−OUT
RF (SENSE)
GSENS
FSR
GND
FG IN−
0.5Ω
D1
RM1
CN1
N
M
S
CAPSTAN MOTOR BLOCK (SCV−0604A)
P405
IDL5V
CM LIMIT
CM 14V
CM CONT
M.GND
GND
F/R
CM.FG
IDL5V
CM 14V
M.GND
GND
IDL5V
FWD/REV (DIRECTION CONTROL)
IC403 (2/2)
LPF
TR405
(CM ON/OFF CONTROL)
H:ON
CM 14V
DM12V
IC403 (1/2)
NJM4558M
LPF
IC BA6827FS
L1 −
L1 +
L2 −
L2 +
FG AMP OUT
FG IN −
FG IN +
PG IN +
PG IN −
H1 +
H1 −
H2 +
H2 −
V REG
VCC
I CONT
PG OUT
GND
FG OUT
GND
GND
GND
1µ
1µ
FG
PG
H1
H2
PRE AMP
PCB
P607
DM 12V
DM CONT
DM PG
M GND
DM FG
M.GND
DM FG IN
DRUM MOTOR BLOCK (E20XL16)

NOTE: PHOTOGRAPHS EXCEPT [REC CTL OUT]
WERE TAKEN DURING PB MODE.
EXCEPT [REC CTL OUT, ENVELOPE DET, SWP]
PHOTOGRAPH'S SECOND LINE FROM THE
BOTTOM IS DC 0V.

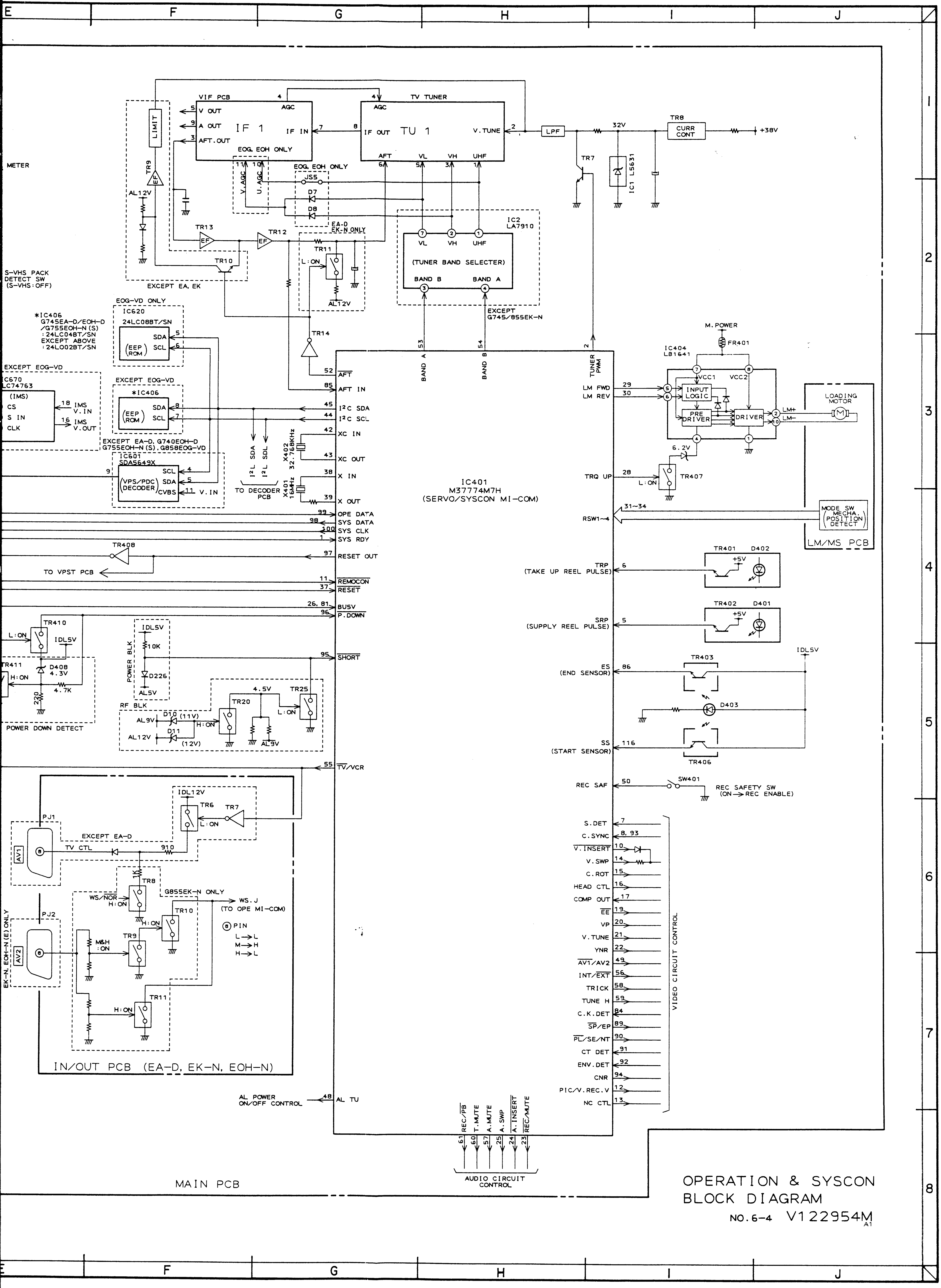

CM FG IN
CM ERROR OUT
DM ERROR OUT
HI-FI HEAD
VIDEO HEAD
IC530 LA7256
PRE AMP
A.SWP
TR532, 533
ENV DET
A ENV.DET (HI-FI DET)
IC501 LA7416M
PRE AMP
V.SWP
TR505
LP:ON
V.ENV.DET
PRE AMP PCB
VIDEO ENVELOPE DET (LOWER:V.SWP)
AUDIO ENVELOPE DET (LOWER:A.SWP)
IC401 M37774M7H
(SYSTEM CONTROL & SERVO MI-COM)
HI-FI DET
ENV.DET
(AUTO TRACKING CONT)
ECTION CONTROL)
63 F/R
68 CM FG
(SPEED)
3 CM PWM
LPF
CM PHASE/SPEED ERROR DETECT
(PB)
(PHASE)
REC /PB SW
(REC)
25Hz F.F
78 CTL-
77 CTL+
WF323
CONTROL HEAD
62 CM STOP
V.SYNC SEPA
93 C SYNC
8 C SYNC
FROM IC302 (VIDEO PCB) 9 PIN (SYNC OUT)
4 DM PWM
LPF
V.SWP 14
A.SWP 25
TO PRE AMP
REC CTL OUT (UPPER:CTL+ LOWER:CTL-)
66 DM PG (PHASE)
67 DM FG (SPEED)
DM PHASE/SPEED ERROR DETECT
CTL AMP OUT 73
CLAMP R 72
CLAMP F 71
TP401 CTL
TR406
H:ON
CTL GAIN
CTL AMP GAIN CONTROL
C SYNC IN
X IN 38
X OUT 39
XC IN 42
XC OUT 43
SYS DATA 98
OPE DATA 99
SYS CLK 100
SYS RDY 1
X401 16MHz
X402 32.768K
MAIN PCB
UPPER:AUDIO SWP
LOWER:VIDEO SWP
SYS DATA 16
OPE DATA 15
SYS CLK 14
SYS RDY 13
IC402 μPD7804FGF (OPE MI-COM)
CTL AMP OUT
G IN
DM PG IN
:CAPSTAN MOTOR SPEED CONTROL LINE
:CAPSTAN MOTOR PHASE CONTROL LINE
:DRUM MOTOR SPEED CONTROL LINE
:DRUM MOTOR PHASE CONTROL LINE
F
G
H
I
J
1
2
3
4
5
6
7
8

SERVO
BLOCK DIAGRAM
NO.6-3 V122953M A1

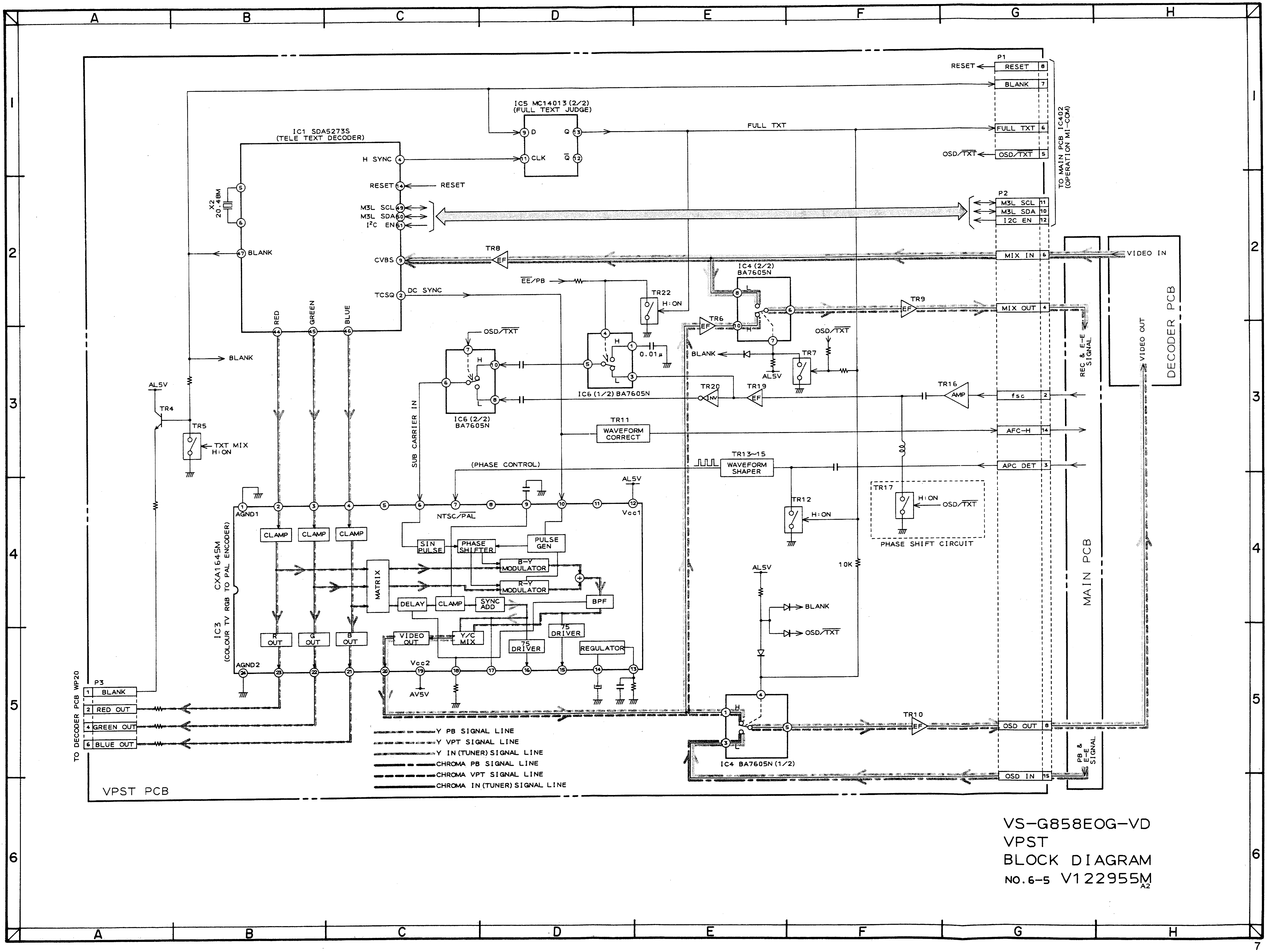


VPST CIRCUIT CONTROL
AUDIO CIRCUIT CONTROL
IC1 SDA5273S
RES
I²C EN
(TELETEXT DECODER)
M3L SCL
M3L SDA
BLANK
RESET (FROM IC401 ㊼)
M3L CLK
M3L DATA
VPST PCB (EOG-VD ONLY)
IN/OUT & DECODER CIRCUIT CONTROL
FULL TXT
OSD/TXT
TXT MIX
NTSC
FM MONO
DECODER
OSC.H
MIC H
VR REC
VR PHONE
A.R.DET
A.L.DET
LEVEL METER INPUT
SAT
WS/NOR
WS.J
DEC CTL
SEC.MES
SECAM
NP
NTSC
VIDEO CIRCUIT CONTROL
S.PACK
SW402
S-VHS PACK DETECT SW (S-VHS:OFF)
EOG-VD ONLY
G700 SERIES
G800SERIES
K1, K2
S1~S11
T1~T10
S1~S13
T1~T14
58, 59
64~70, 72~75
1~7, 78~80
60~70
1~7, 74~80
T1, T3~8, T10
IC402
µPD7804FGF
(OPERATION MI-COM)
X1
X2
X403 5.0M
*IC406
G745EA-D/EOH-D /G755EOH-N(S) :24LC04BT/SN
EXCEPT ABOVE :24L002BT/SN
IC620
24LC08BT/SN
(EEP ROM)
SDA
SCL
EXCEPT EOG-VD
IC670
LC74763
(IMS)
OSD CS
OSD S IN
OSD CLK
IMS V.IN
IMS V.OUT
OSD DATA
EXCEPT EA-D, G740EOH-D G755EOH-N(S), G858EOG-
IC601
SDA5649X
(VPS/PDC DECODER)
CVBS
DAVN
OPE DATA
SYS DATA
SYS CLK
SYS RDY
RESET
TR408
TO VPST PCB
LIMIT
TR9
EF
AL12V
EXCEPT EA, E
(KEY MATRIX)
S7~11
S1~11
FROM MAIN PCB (POWER BLK)
-30V
9.1V
FL1
FL-
FL+
G1, G10
G3~G8
9G
2G
TR2
TR1
BF
T2
T9
PH1
REMOCON SIG.DET
SW1
RESET
OPERATION-L PCB (G700 SERIES ONLY)
IC405
PST9130
BACK UP VOLTAGE DETECT
220
BUSV
D406
D407
C433 SUPER CAPA.
TR409
L:ON
IDL5V
TR410
TR411
H:ON
D408 4.3V
4.7K
POWER DOWN DETECT
POWER BLK
10K
D226
AL5V
RF BLK
AL9V
D10 (11V)
AL12V
D11
MD1
V.IN
A.IN
BST.B
MOD.B
EA-D ONLY
EXCEPT EA-D
JS1
IDL12
PJ1
AV1
TV CTL
910
TR8
WS/NOR H:ON
G855EK-
TR10
PJ2
AV2
EK-N, EOH-N(E) ONLY
TR9
M&H :ON
TR11
IN/OUT PCB (EA-D, EK
S4~9
S1~13
AUDIO/VIDEO
DECODER
D CTL (TO OPE MI-CON)
TR14
TR6
IDL12V
TR18
EXCEPT EOG-D
IC1
STV6400
TV/VCR
(VIDEO SELECTOR)
BUS DATA
BUS CLK
I²C CLK
I²C DATA
FROM IC401
DECODER PCB (EOH-DN, EOG-D/VD, EDG)
IDL12V
FR1
FL2
TR1, 3
OSC DRIVE
5.6V
AC
P1~P13
G1~G13
G14
T1~T13
TR4
T14
OPERATION-H PCB (G800 SERIES ONLY)
MAI
A
B
C
D
E
F
1
2
3
4
5
6
7
8
6

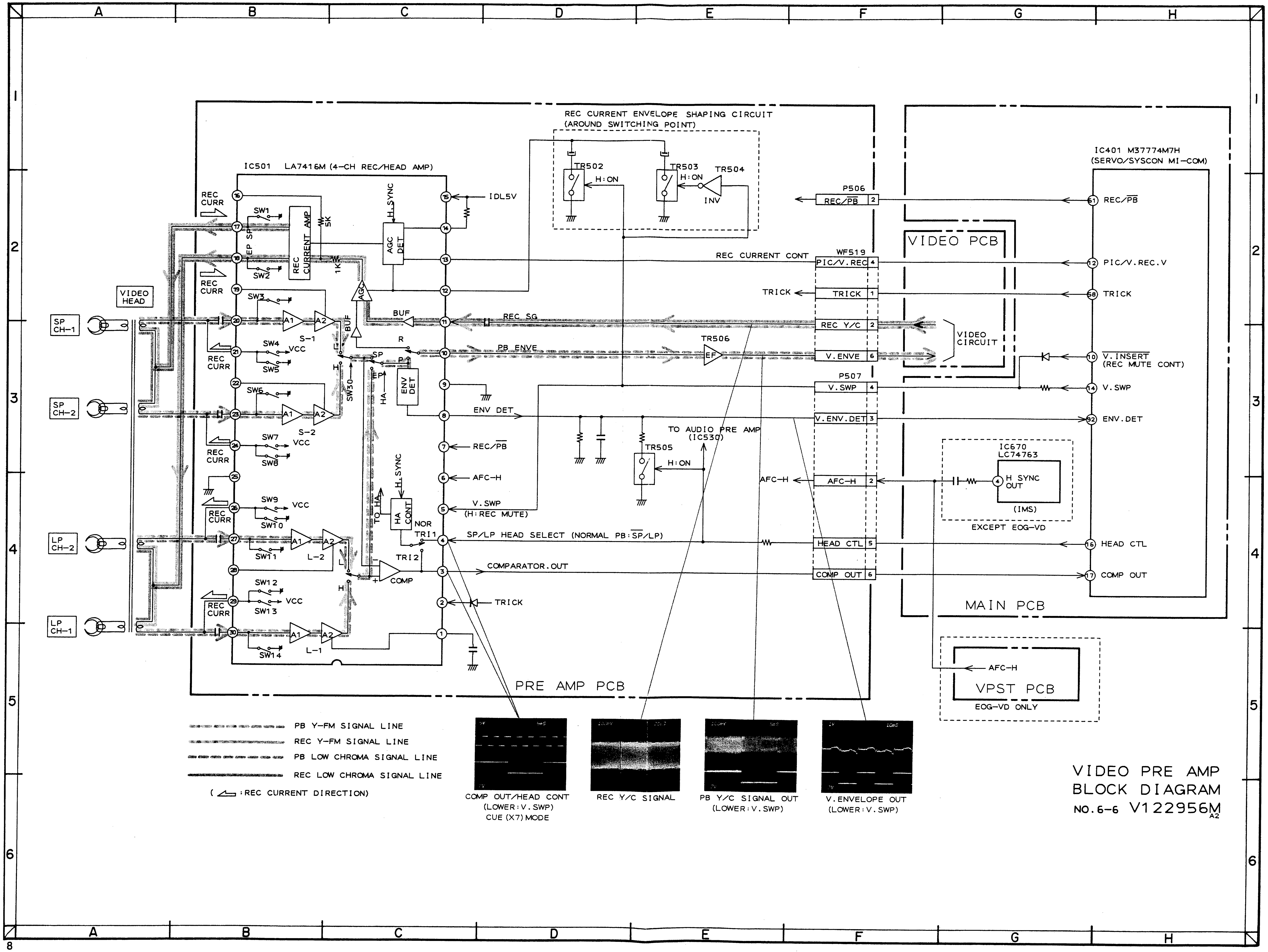
MODE / OUTPUT	EJECT	STOP (TAPE LOADED)	PAUSE/PLAY	PLAY	REVIEW	CUE	FF	REW	POWER OFF (WITH CASSETTE)
RSW 4	H (5V)	H	H	H	H	H	L	L	H
RSW 3	H (5V)	L	H	L	H	L	L	L	L
RSW 2	L	H	H	H	L	H	H	H	L
RSW 1	L	H	L	H	H	H	H	H	H


E
F
G
H
I
J
1
2
3
4
5
6
7
8
METER
VIF PCB
V OUT
A OUT
AFT.OUT
IF 1
IF IN
AGC
EOG, EOH ONLY
V.AGC
U.AGC
EOG, EOH ONLY
JS5
D7
D8
EA-D
EK-N ONLY
LIMIT
TR9
EF
AL12V
TR13
TR12
TR10
EXCEPT EA, EK
TR11
L:ON
AL12V
TV TUNER
AGC
IF OUT
TU 1
V.TUNE
AFT
VL
VH
UHF
IC2
LA7910
VL
VH
UHF
(TUNER BAND SELECTER)
BAND B
BAND A
EXCEPT
G745/855EK-N
LPF
32V
TR7
IC1 L5631
TR8
CURR CONT
+38V
S-VHS PACK
DETECT SW
(S-VHS:OFF)
EOG-VD ONLY
IC620
24LC08BT/SN
SDA
SCL
(EEP ROM)
*IC406
G745EA-D/EOH-D
/G755EOH-N(S)
:24LC04BT/SN
EXCEPT ABOVE
:24LO02BT/SN
EXCEPT EOG-VD
IC670
LC74763
(IMS)
CS
S IN
CLK
IMS V.IN
IMS V.OUT
EXCEPT EOG-VD
*IC406
SDA
SCL
(EEP ROM)
EXCEPT EA-D, G740EOH-D
G755EOH-N(S), G858EOG-VD
IC601
SDA5649X
SCL
SDA
CVBS
(VPS/PDC DECODER)
V.IN
I²L SDA
I²L SDL
TO DECODER PCB
X402
32.768KHz
X401
16MHz
TR14
AFT
AFT IN
I²C SDA
I²C SCL
XC IN
XC OUT
X IN
X OUT
OPE DATA
SYS DATA
SYS CLK
SYS RDY
RESET OUT
REMOCON
RESET
BUSV
P.DOWN
SHORT
TV/VCR
AL TU
BAND A
BAND B
TUNER PWM
IC401
M37774M7H
(SERVO/SYSCON MI-COM)
TR408
TO VPST PCB
TR410
L:ON
IDL5V
TR411
H:ON
D408
4.3V
220
4.7K
POWER DOWN DETECT
POWER BLK
IDL5V
10K
D226
AL5V
RF BLK
AL9V
AL12V
D10
(11V)
D11
(12V)
TR20
H:ON
4.5V
AL9V
TR25
L:ON
IDL12V
TR6
TR7
L:ON
PJ1
AV1
EXCEPT EA-D
TV CTL
910
1K
TR8
WS/NOR
H:ON
G855EK-N ONLY
TR10
H:ON
WS.J
(TO OPE MI-COM)
⑧PIN
L→L
M→H
H→L
PJ2
AV2
EK-N, EOH-N(E) ONLY
M&H
:ON
TR9
TR11
H:ON
IN/OUT PCB (EA-D, EK-N, EOH-N)
AL POWER
ON/OFF CONTROL
MAIN PCB
REC/PB
T.MUTE
A.MUTE
A.SWP
A.INSERT
REC/MUTE
AUDIO CIRCUIT CONTROL
M.POWER
FR401
IC404
LB1641
VCC1
VCC2
INPUT LOGIC
PRE DRIVER
DRIVER
LM+
LM−
LOADING MOTOR
LM FWD
LM REV
TRQ UP
6.2V
TR407
L:ON
RSW1~4
31~34
MODE SW
(MECHA. POSITION DETECT)
LM/MS PCB
TRP
(TAKE UP REEL PULSE)
TR401
D402
+5V
SRP
(SUPPLY REEL PULSE)
TR402
D401
+5V
ES
(END SENSOR)
TR403
IDL5V
D403
SS
(START SENSOR)
TR406
REC SAF
SW401
REC SAFETY SW
(ON→REC ENABLE)
S.DET
C.SYNC
V.INSERT
V.SWP
C.ROT
HEAD CTL
COMP OUT
EE
VP
V.TUNE
YNR
AV1/AV2
INT/EXT
TRICK
TUNE H
C.K.DET
SP/EP
PL/SE/NT
CT DET
ENV.DET
CNR
PIC/V.REC.V
NC CTL
VIDEO CIRCUIT CONTROL

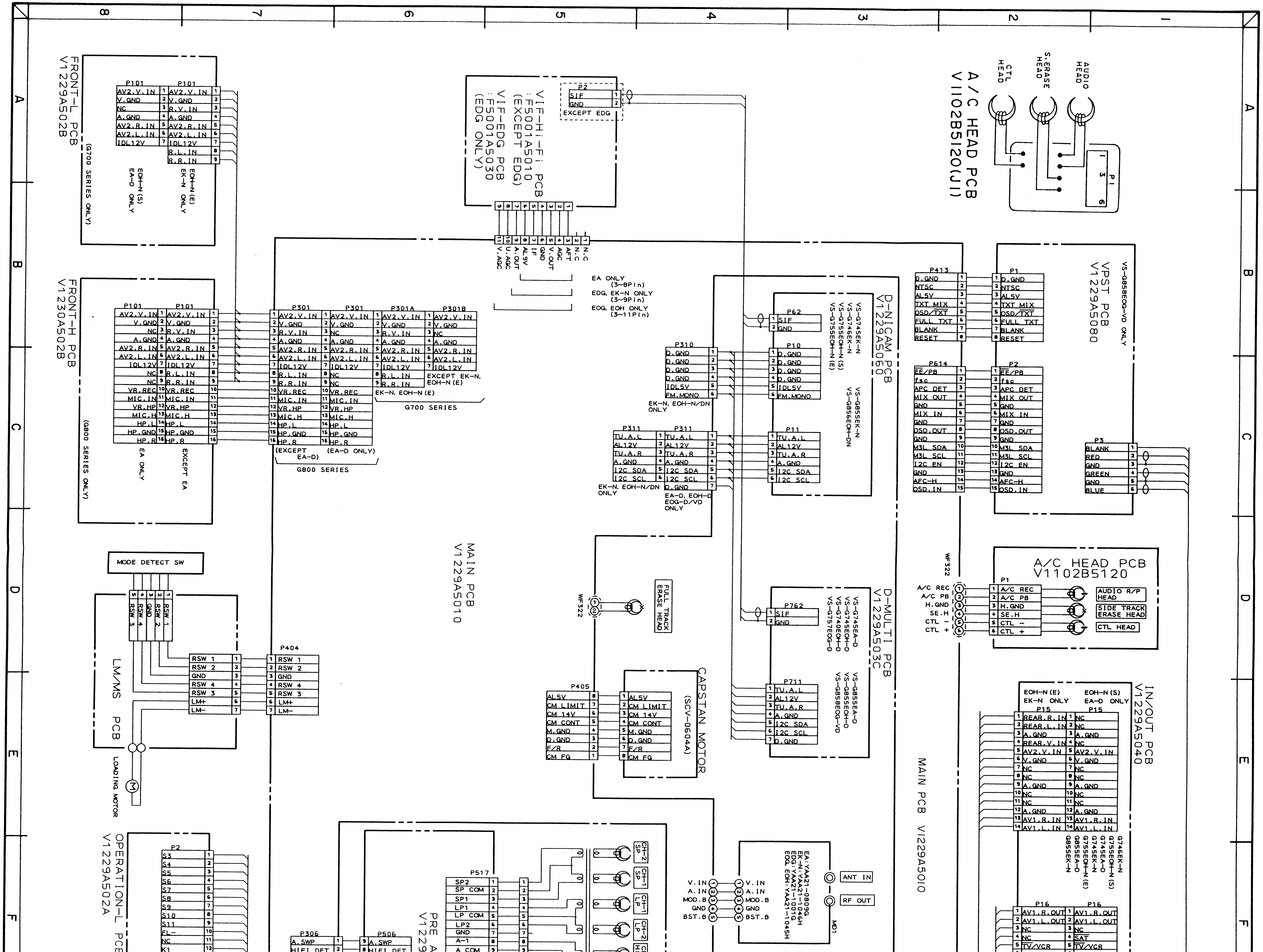
OPERATION & SYSCON
BLOCK DIAGRAM
NO.6-4 V122954M A1

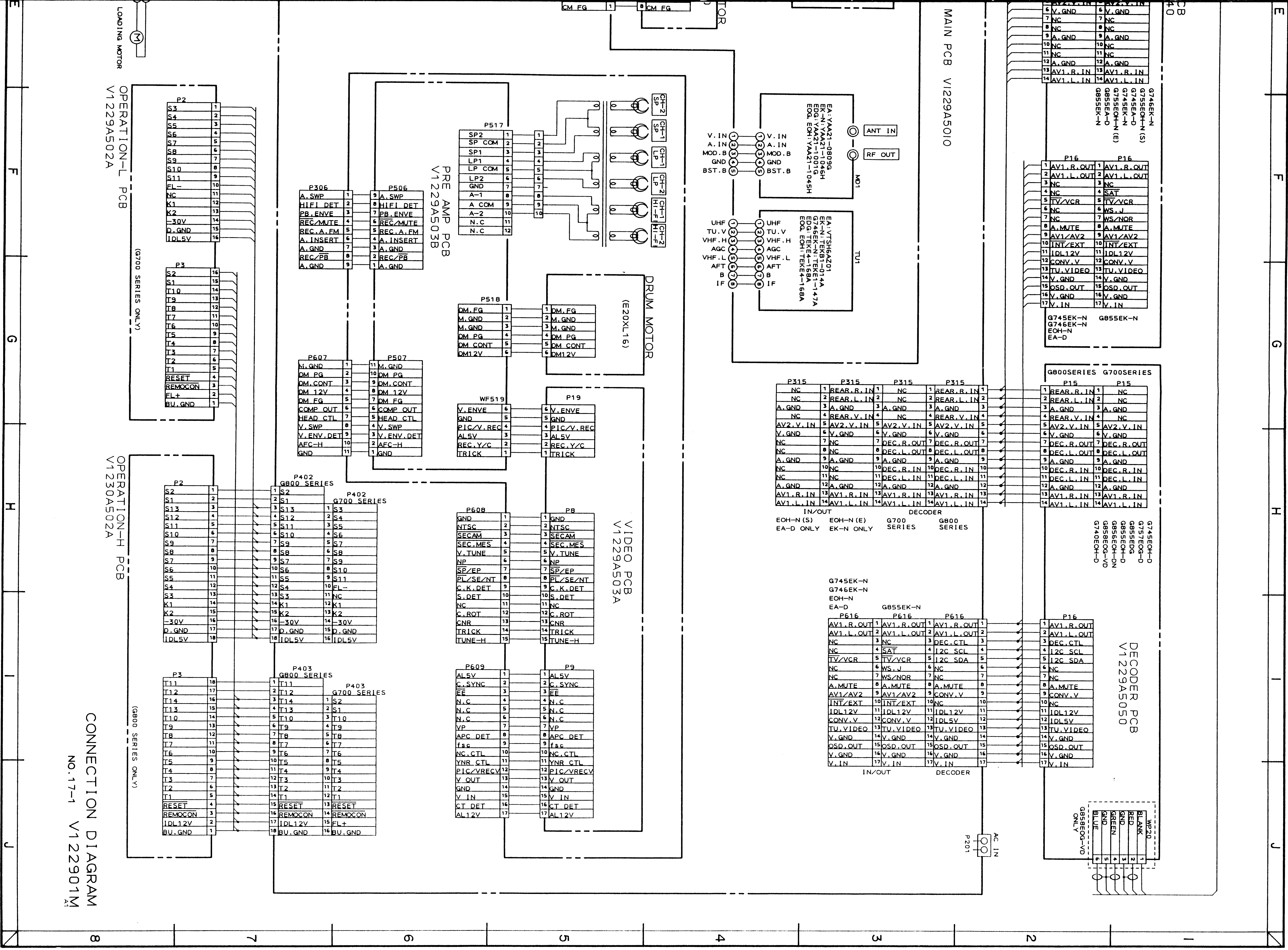

A
B
C
D
E
F
G
H
1
2
3
4
5
6
P1
RESET
BLANK
FULL TXT
OSD/TXT
TO MAIN PCB IC402 (OPERATION MI-COM)
P2
M3L SCL
M3L SDA
I2C EN
MIX IN
VIDEO IN
MIX OUT
fsc
AFC-H
APC DET
OSD OUT
OSD IN
REC & E-E SIGNAL
PB & E-E SIGNAL
VIDEO OUT
DECODER PCB
MAIN PCB
IC5 MC14013 (2/2) (FULL TEXT JUDGE)
D
Q
CLK
Q̄
IC1 SDA5273S (TELE TEXT DECODER)
H SYNC
RESET
M3L SCL
M3L SDA
I2C EN
CVBS
TCSQ
DC SYNC
BLANK
X2 20.48M
RED
GREEN
BLUE
TR8
EF
EE/PB
TR22
H:ON
IC4 (2/2) BA7605N
TR9
TR6
TR7
TR20
INV
TR19
TR16
AMP
TR11
WAVEFORM CORRECT
TR13~15
WAVEFORM SHAPER
TR12
H:ON
TR17
H:ON
PHASE SHIFT CIRCUIT
10K
AL5V
0.01μ
IC6 (1/2) BA7605N
IC6 (2/2) BA7605N
SUB CARRIER IN
(PHASE CONTROL)
TR4
TR5
TXT MIX H:ON
IC3 CXA1645M (COLOUR TV RGB TO PAL ENCODER)
AGND1
AGND2
NTSC/PAL
Vcc1
Vcc2
AV5V
CLAMP
MATRIX
SIN PULSE
PHASE SHIFTER
PULSE GEN
B-Y MODULATOR
R-Y MODULATOR
DELAY
SYNC ADD
BPF
R OUT
G OUT
B OUT
VIDEO OUT
Y/C MIX
75 DRIVER
REGULATOR
IC4 BA7605N (1/2)
TR10
P3
BLANK
RED OUT
GREEN OUT
BLUE OUT
TO DECODER PCB WP20
VPST PCB
Y PB SIGNAL LINE
Y VPT SIGNAL LINE
Y IN (TUNER) SIGNAL LINE
CHROMA PB SIGNAL LINE
CHROMA VPT SIGNAL LINE
CHROMA IN (TUNER) SIGNAL LINE

VS-G858EOG-VD
VPST
BLOCK DIAGRAM
NO.6-5 V122955M A2


A
B
C
D
E
F
G
H
1
2
3
4
5
6
REC CURRENT ENVELOPE SHAPING CIRCUIT
(AROUND SWITCHING POINT)
TR502
H:ON
TR503
H:ON
TR504
INV
IC501 LA7416M (4-CH REC/HEAD AMP)
REC CURR
REC CURR
REC CURR
REC CURR
REC CURR
REC CURR
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1
SW1
SW2
SW3
SW4
SW5
SW6
SW7
SW8
SW9
SW10
SW11
SW12
SW13
SW14
VCC
EP SP
REC CURRENT AMP
5K
1K
H.SYNC
AGC DET
AGC
BUF
BUF
A1
A2
S-1
S-2
L-2
L-1
L
H
R
SP
P
EP
SW30
HA
ENV DET
TO HA
HA CONT
NOR
TRI1
TRI2
COMP
IDL5V
REC SG
PB ENVE
ENV DET
REC/PB
AFC-H
V.SWP
(H:REC MUTE)
SP/LP HEAD SELECT (NORMAL PB:SP/LP)
COMPARATOR.OUT
TRICK
VIDEO HEAD
SP CH-1
SP CH-2
LP CH-2
LP CH-1
PRE AMP PCB
REC CURRENT CONT
TRICK
TR506
EF
TO AUDIO PRE AMP
(IC530)
TR505
H:ON
AFC-H
P506
REC/PB 2
WF519
PIC/V.REC 4
TRICK 1
REC Y/C 2
V.ENVE 6
P507
V.SWP 4
V.ENV.DET 3
AFC-H 2
HEAD CTL 5
COMP OUT 6
VIDEO PCB
VIDEO CIRCUIT
IC401 M37774M7H
(SERVO/SYSCON MI-COM)
61 REC/PB
12 PIC/V.REC.V
58 TRICK
10 V.INSERT
(REC MUTE CONT)
14 V.SWP
32 ENV.DET
16 HEAD CTL
17 COMP OUT
IC670
LC74763
4 H SYNC OUT
(IMS)
EXCEPT EOG-VD
MAIN PCB
AFC-H
VPST PCB
EOG-VD ONLY
PB Y-FM SIGNAL LINE
REC Y-FM SIGNAL LINE
PB LOW CHROMA SIGNAL LINE
REC LOW CHROMA SIGNAL LINE
(:REC CURRENT DIRECTION)
COMP OUT/HEAD CONT
(LOWER:V.SWP)
CUE (X7) MODE
REC Y/C SIGNAL
PB Y/C SIGNAL OUT
(LOWER:V.SWP)
V.ENVELOPE OUT
(LOWER:V.SWP)

VIDEO PRE AMP
BLOCK DIAGRAM
NO.6-6 V122956M A2

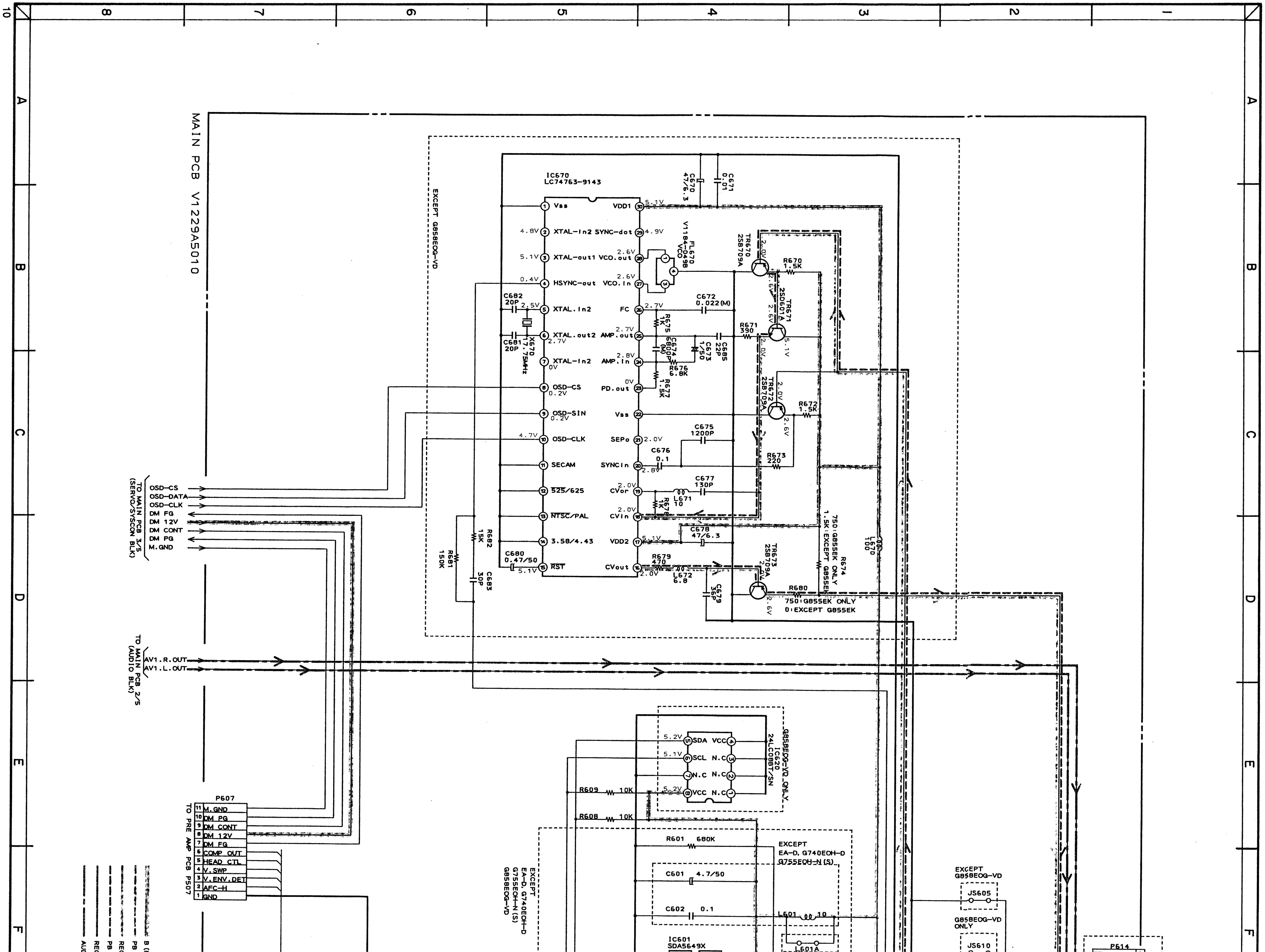
8
7
6
5
4
3
2
1
A
B
C
D
E
F
FRONT-L PCB V1229A502B
(G700 SERIES ONLY)
EOH-N (S) EA-D ONLY
EOH-N (E) EK-N ONLY
P101
AV2.V.IN
V.GND
NC
A.GND
AV2.R.IN
AV2.L.IN
IDL12V
R.V.IN
R.L.IN
R.R.IN
FRONT-H PCB V1230A502B
(G800 SERIES ONLY)
EA ONLY
EXCEPT EA
VR.REC
MIC.IN
VR.HP
MIC.H
HP.L
HP.GND
HP.R
VIF-Hi-Fi PCB :F5001A5010 (EXCEPT EDG)
VIF-EDG PCB :F5001A5030 (EDG ONLY)
P2
SIF
GND
EXCEPT EDG
N.C
AFT
AGC
V.OUT
GND
IF
AL9V
A.OUT
U.AGC
V.AGC
EA ONLY (3~8Pin)
EDG, EK-N ONLY (3~9Pin)
EOG, EOH ONLY (3~11Pin)
P301
P301A
P301B
(EXCEPT EA-D)
(EA-D ONLY)
G800 SERIES
EXCEPT EK-N, EOH-N (E)
EK-N, EOH-N (E)
G700 SERIES
MAIN PCB V1229A5010
MODE DETECT SW
RSW 1
RSW 2
GND
RSW 4
RSW 3
LM+
LM-
LM/MS PCB
LOADING MOTOR
M
P404
OPERATION-L PCB V1229A502A
P2
S3
S4
S5
S6
S7
S8
S9
S10
S11
FL-
NC
K1
PRE A V129
P306
P506
A.SWP
HIFI DET
P517
SP2
SP COM
SP1
LP1
LP COM
LP2
GND
A-1
A COM
CH-2 SP
CH-1 SP
CH-1 LP
CH-2 LP
WF322
FULL TRACK ERASE HEAD
P405
AL5V
CM LIMIT
CM 14V
CM CONT
M.GND
D.GND
F/R
CM FG
CAPSTAN MOTOR (SCV-0604A)
D-NICAM PCB V1229A5060
VS-G745EK-N
VS-G746EK-N
VS-G755EOH-N (S)
VS-G755EOH-N (E)
VS-G855EK-N
VS-G856EOH-DN
P62
P310
P10
D.GND
IDL5V
FM.MONO
EK-N, EOH-N/DN ONLY
P311
P11
TU.A.L
AL12V
TU.A.R
A.GND
I2C SDA
I2C SCL
EA-D, EOH-D EOG-D/VD ONLY
D-MULTI PCB V1229A503C
VS-G745EA-D
VS-G745EOH-D
VS-G740EOH-D
VS-G757EOG-D
VS-G855EA-D
VS-G855EOH-D
VS-G858EOG-VD
P762
P711
V.IN
A.IN
MOD.B
GND
BST.B
EA:YAA21-0809G
EK-N:YAA21-1046H
EDG:YAA21-1001G
EOG, EOH:YAA21-1045H
MD1
ANT IN
RF OUT
A/C HEAD PCB V1102B5120(J1)
CTL HEAD
S.ERASE HEAD
AUDIO HEAD
P1
VPST PCB V1229A5080
VS-G858EOG-VD ONLY
P413
NTSC
AL5V
TXT MIX
OSD/TXT
FULL TXT
BLANK
RESET
P614
EE/PB
fsc
APC DET
MIX OUT
MIX IN
OSD.OUT
M3L SDA
M3L SCL
I2C EN
AFC-H
OSD.IN
P3
RED
GREEN
BLUE
WF322
A/C HEAD PCB V1102B5120
A/C REC
A/C PB
H.GND
SE.H
CTL -
CTL +
AUDIO R/P HEAD
SIDE TRACK ERASE HEAD
CTL HEAD
MAIN PCB V1229A5010
IN/OUT PCB V1229A5040
EOH-N (E) EK-N ONLY
EOH-N (S) EA-D ONLY
P15
REAR.R.IN
REAR.L.IN
REAR.V.IN
AV1.R.IN
AV1.L.IN
G746EK-N
G755EOH-N (S)
G745EA-D
G745EK-N
G755EOH-N (E)
G855EA-D
G855EK-N
P16
AV1.R.OUT
AV1.L.OUT
SAT
TV/VCR

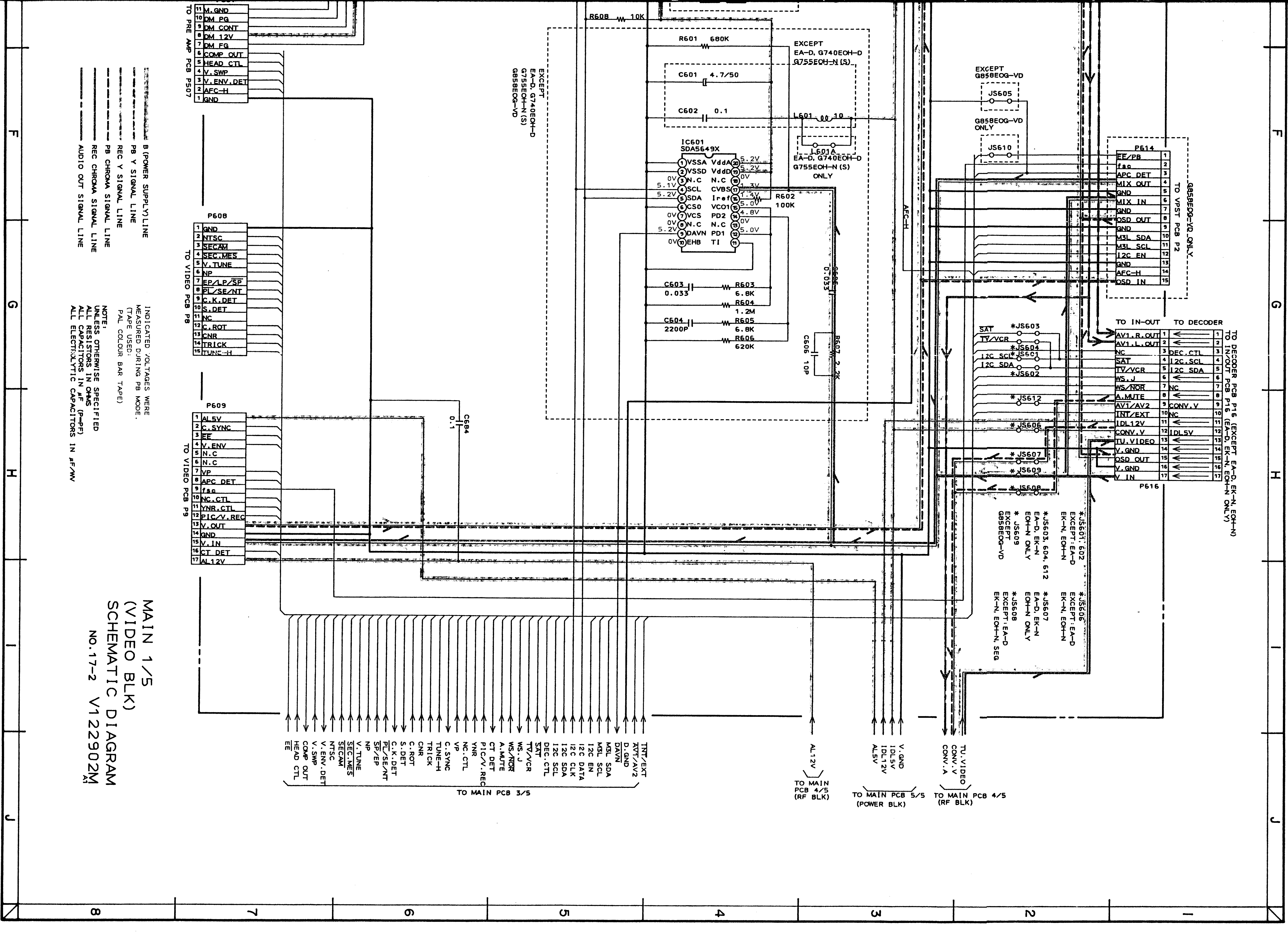


LOADING MOTOR
M
OPERATION-L PCB V1229A502A
P2
S3 S4 S5 S6 S7 S8 S9 S10 S11 FL- NC K1 K2 -30V D.GND IDL5V
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
(G700 SERIES ONLY)
P3
S2 S1 T10 T9 T8 T7 T6 T5 T4 T3 T2 T1 RESET REMOCON FL+ BU.GND
16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1
OPERATION-H PCB V1230A502A
P2
S2 S1 S13 S12 S11 S10 S9 S8 S7 S6 S5 S4 S3 K1 K2 -30V D.GND IDL5V
P402 G800 SERIES
S2 S1 S13 S12 S11 S10 S9 S8 S7 S6 S5 S4 S3 K1 K2 -30V D.GND IDL5V
P402 G700 SERIES
S3 S4 S5 S6 S7 S8 S9 S10 S11 FL- NC K1 K2 -30V D.GND IDL5V
(G800 SERIES ONLY)
P3
T11 T12 T14 T13 T10 T9 T8 T7 T6 T5 T4 T3 T2 T1 RESET REMOCON IDL12V BU.GND
P403 G800 SERIES
T11 T12 T14 T13 T10 T9 T8 T7 T6 T5 T4 T3 T2 T1 RESET REMOCON IDL12V BU.GND
P403 G700 SERIES
S2 S1 T10 T9 T8 T7 T6 T5 T4 T3 T2 T1 RESET REMOCON FL+ BU.GND
PRE AMP PCB V1229A503B
P306
A.SWP HIFI DET PB.ENVE REC/MUTE REC.A.FM A.INSERT A.GND REC/PB A.GND
P506
A.SWP HIFI DET PB.ENVE REC/MUTE REC.A.FM A.INSERT A.GND REC/PB A.GND
P517
SP2 SP COM SP1 LP1 LP COM LP2 GND A-1 A COM A-2 N.C N.C
CH-2 SP CH-1 SP CH-1 LP CH-2 LP CH-1 HI-F CH-2 HI-F
P518
DM.FG M.GND M.GND DM PG DM CONT DM12V
DRUM MOTOR (E20XL16)
DM.FG M.GND M.GND DM PG DM CONT DM12V
P607
M.GND DM PG DM.CONT DM 12V DM FG COMP OUT HEAD CTL V.SWP V.ENV.DET AFC-H GND
P507
M.GND DM PG DM.CONT DM 12V DM FG COMP OUT HEAD CTL V.SWP V.ENV.DET AFC-H GND
WF519
V.ENVE GND PIC/V.REC AL5V REC.Y/C TRICK
P19
V.ENVE GND PIC/V.REC AL5V REC.Y/C TRICK
VIDEO PCB V1229A503A
P608
GND NTSC SECAM SEC.MES V.TUNE NP SP/EP PL/SE/NT C.K.DET S.DET NC C.ROT CNR TRICK TUNE-H
P8
GND NTSC SECAM SEC.MES V.TUNE NP SP/EP PL/SE/NT C.K.DET S.DET NC C.ROT CNR TRICK TUNE-H
P609
AL5V C.SYNC EE N.C N.C N.C VP APC DET fsc NC.CTL YNR CTL PIC/VRECV V OUT GND V IN CT DET AL12V
P9
AL5V C.SYNC EE N.C N.C N.C VP APC DET fsc NC.CTL YNR CTL PIC/VREC V OUT GND V IN CT DET AL12V
CM FG
CM FG
MAIN PCB V1229A5010
MD1
EA:YAA21-0809G
EK-N:YAA21-1046H
EDG:YAA21-1044G
EOG.EOH:YAA21-1045H
V.IN A.IN MOD.B GND BST.B
ANT IN
RF OUT
TU1
EA:VTSH6AZ01
EK-N:TEKB1-014A
G745EK-N:TEKE1-147A
EDG:TEK4-168A
EOG.EOH:TEK4-168A
UHF TU.V VHF.H AGC VHF.L AFT B IF
P16
AV1.R.OUT AV1.L.OUT NC NC TV/VCR NC NC A.MUTE AV1/AV2 INT/EXT IDL12V CONV.V TU.VIDEO V.GND OSD.OUT V.GND V.IN
P16
AV1.R.OUT AV1.L.OUT NC SAT TV/VCR WS.J WS/NOR A.MUTE AV1/AV2 INT/EXT IDL12V CONV.V TU.VIDEO V.GND OSD.OUT V.GND V.IN
G745EK-N G746EK-N EOH-N EA-D
G855EK-N
V.GND NC NC A.GND NC NC A.GND AV1.R.IN AV1.L.IN
G746EK-N G755EOH-N(S) G745EK-N G745EA-D G755EOH-N(E) G855EA-D G855EK-N
P315
NC NC A.GND NC AV2.V.IN V.GND NC NC A.GND NC NC A.GND AV1.R.IN AV1.L.IN
IN/OUT EOH-N(S) EA-D ONLY
P315
REAR.R.IN REAR.L.IN A.GND REAR.V.IN AV2.V.IN V.GND NC NC A.GND NC NC A.GND AV1.R.IN AV1.L.IN
EOH-N(E) EK-N ONLY
P315
NC NC A.GND NC AV2.V.IN V.GND DEC.R.OUT DEC.L.OUT A.GND DEC.R.IN DEC.L.IN A.GND AV1.R.IN AV1.L.IN
DECODER G700 SERIES
P315
REAR.R.IN REAR.L.IN A.GND REAR.V.IN AV2.V.IN V.GND DEC.R.OUT DEC.L.OUT A.GND DEC.R.IN DEC.L.IN A.GND AV1.R.IN AV1.L.IN
G800 SERIES
G800SERIES G700SERIES
P15
REAR.R.IN REAR.L.IN A.GND REAR.V.IN AV2.V.IN V.GND DEC.R.OUT DEC.L.OUT A.GND DEC.R.IN DEC.L.IN A.GND AV1.R.IN AV1.L.IN
P15
NC NC A.GND NC AV2.V.IN V.GND DEC.R.OUT DEC.L.OUT A.GND DEC.R.IN DEC.L.IN A.GND AV1.R.IN AV1.L.IN
G745EOH-D G755EOG-D G855EOG G855EOH-D G855EOH-DN G855EOG-VD G740EOH-D
G745EK-N G746EK-N EOH-N EA-D
G855EK-N
P616
AV1.R.OUT AV1.L.OUT NC NC TV/VCR NC NC A.MUTE AV1/AV2 INT/EXT IDL12V CONV.V TU.VIDEO V.GND OSD.OUT V.GND V.IN
P616
AV1.R.OUT AV1.L.OUT NC SAT TV/VCR WS.J WS/NOR A.MUTE AV1/AV2 INT/EXT IDL12V CONV.V TU.VIDEO V.GND OSD.OUT V.GND V.IN
IN/OUT
P616
AV1.R.OUT AV1.L.OUT DEC.CTL I2C SCL I2C SDA NC NC A.MUTE CONV.V NC IDL12V IDL5V TU.VIDEO V.GND OSD.OUT V.GND V.IN
DECODER
P16
AV1.R.OUT AV1.L.OUT DEC.CTL I2C SCL I2C SDA NC NC A.MUTE CONV.V NC IDL12V IDL5V TU.VIDEO V.GND OSD.OUT V.GND V.IN
DECODER PCB V1229A5050
AC IN
P201
WP20
BLANK RED GND GREEN GND BLUE
G858EOG-VD ONLY
E F G H I J
9 8 7 6 5 4 3 2 1

CONNECTION DIAGRAM

NO.17-1 V122901M A1


MAIN PCB V1229A5010
EXCEPT G858EOG-VD
IC670
LC74763-9143
Vss
VDD1
XTAL-In2 SYNC-dot
XTAL-out1 VCO.out
HSYNC-out VCO.In
XTAL.In2 FC
XTAL.out2 AMP.out
XTAL-In2 AMP.In
OSD-CS PD.out
OSD-SIN Vss
OSD-CLK SEPo
SECAM SYNCIn
525/625 CVor
NTSC/PAL CVIn
3.58/4.43 VDD2
RST CVout
C670 47/6.3
C671 0.01
FL670 V1184-0498 VCO
TR670 2SB709A
R670 1.5K
TR671 2SD601A
R671 390
TR672 2SB709A
R672 1.5K
TR673 2SB709A
R673 220
C672 0.022(M)
R675 1K
C674 680P (M)
C673 1/50
C685 22P
R676 6.8K
R677 1.5K
C675 1200P
C676 0.1
C677 130P
R678 1K
L671 10
C678 47/6.3
R679 470
L672 6.8
C679 36P
R680 750:G855EK ONLY 0:EXCEPT G855EK
R674 750:G855EK ONLY 1.5K:EXCEPT G855EK
L670 100
C682 20P
C681 20P
X670 17.734MHz
C680 0.47/50
R682 15K
R681 150K
C683 30P
TO MAIN PCB 3/5 (SERVO/SYSCON BLK)
OSD-CS
OSD-DATA
OSD-CLK
DM FG
DM 12V
DM CONT
DM PG
M.GND
TO MAIN PCB 2/5 (AUDIO BLK)
AV1.R.OUT
AV1.L.OUT
G858EOG-VD ONLY
IC620 24LC08BT/SN
SDA VCC
SCL N.C
N.C N.C
VCC N.C
R609 10K
R608 10K
P607
TO PRE AMP PCB P507
11 M.GND
10 DM PG
9 DM CONT
8 DM 12V
7 DM FG
6 COMP OUT
5 HEAD CTL
4 V.SWP
3 V.ENV.DET
2 AFC-H
1 GND
EXCEPT EA-D, G740EOH-D G755EOH-N(S) G858EOG-VD
R601 680K
EXCEPT EA-D, G740EOH-D G755EOH-N(S)
C601 4.7/50
C602 0.1
L601 10
L601A
IC601 SDA5649X
EXCEPT G858EOG-VD
JS605
G858EOG-VD ONLY
JS610
P614
A
B
C
D
E
F
1
2
3
4
5
6
7
8
10

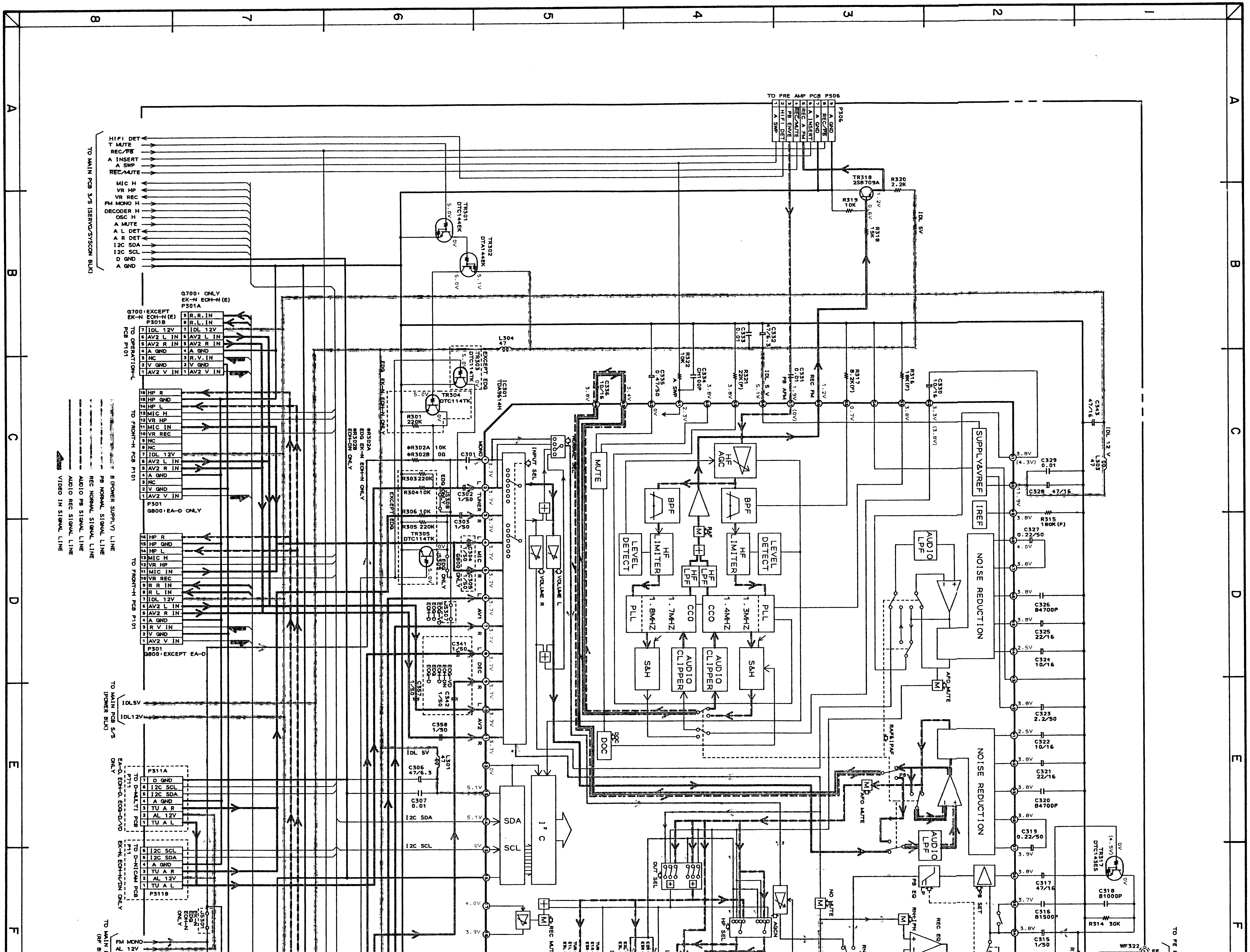

B(POWER SUPPLY)LINE
PB Y SIGNAL LINE
REC Y SIGNAL LINE
PB CHROMA SIGNAL LINE
REC CHROMA SIGNAL LINE
AUDIO OUT SIGNAL LINE
TO PRE AMP PCB P507
11 M.GND
10 DM PG
9 DM CONT
8 DM 12V
7 DM FG
6 COMP OUT
5 HEAD CTL
4 V.SWP
3 V.ENV.DET
2 AFC-H
1 GND
P608
TO VIDEO PCB P8
1 GND
2 NTSC
3 SECAM
4 SEC.MES
5 V.TUNE
6 NP
7 EP/LP/SP
8 PL/SE/NT
9 C.K.DET
10 S.DET
11 NC
12 C.ROT
13 CNR
14 TRICK
15 TUNE-H
P609
TO VIDEO PCB P9
1 AL5V
2 C.SYNC
3 EE
4 V.ENV
5 N.C
6 N.C
7 VP
8 APC DET
9 fsc
10 NC.CTL
11 YNR.CTL
12 PIC/V.REC
13 V.OUT
14 GND
15 V.IN
16 CT DET
17 AL12V
C684 0.1
EXCEPT EA-D, G740EOH-D G755EOH-N(S) G858EOG-VD
R608 10K
R601 680K
C601 4.7/50
C602 0.1
EXCEPT EA-D, G740EOH-D G755EOH-N(S)
L601 10
L601A
EA-D, G740EOH-D G755EOH-N(S) ONLY
IC601 SDA5649X
1 VSSA
2 VSSD
3 N.C
4 SCL
5 SDA
6 CS0
7 VCS
8 N.C
9 DAVN
10 EHB
20 VddA
19 VddD
18 N.C
17 CVBS
16 Iref
15 VCO1
14 PD2
13 N.C
12 PD1
11 TI
5.2V
5.2V
0V
1.3V
1.4V
5.0V
4.8V
0V
5.0V
0V
5.1V
5.2V
0V
0V
5.2V
0V
R602 100K
C603 0.033
R603 6.8K
R604 1.2M
C604 2200P
R605 6.8K
R606 620K
C605 0.033
C606 10P
R607 2.2K
AFC-H
EXCEPT G858EOG-VD
JS605
G858EOG-VD ONLY
JS610
P614
TO VPST PCB P2
G858EOG-VD ONLY
1 EE/PB
2 fsc
3 APC DET
4 MIX OUT
5 GND
6 MIX IN
7 GND
8 OSD OUT
9 GND
10 M3L SDA
11 M3L SCL
12 I2C EN
13 GND
14 AFC-H
15 OSD IN
TO IN-OUT
TO DECODER
SAT
TV/VCR
I2C SCL
I2C SDA
*JS603
*JS604
*JS601
*JS602
*JS612
*JS606
*JS607
*JS609
*JS608
1 AV1.R.OUT
2 AV1.L.OUT
3 NC
4 SAT
5 TV/VCR
6 WS.J
7 WS/NOR
8 A.MUTE
9 AV1/AV2
10 INT/EXT
11 IDL12V
12 CONV.V
13 TU.VIDEO
14 V.GND
15 OSD OUT
16 V.GND
17 V IN
3 DEC.CTL
4 I2C.SCL
5 I2C SDA
7 NC
9 CONV.V
10 NC
12 IDL5V
P616
TO DECODER PCB P16 (EXCEPT EA-D, EK-N, EOH-N)
TO IN/OUT PCB P16 (EA-D, EK-N, EOH-N ONLY)
*JS601, 602 EXCEPT:EA-D EK-N, EOH-N
*JS603, 604, 612 EA-D, EK-N EOH-N ONLY
* JS609 EXCEPT G858EOG-VD
*JS606 EXCEPT:EA-D EK-N, EOH-N
*JS607 EA-D, EK-N EOH-N ONLY
*JS608 EXCEPT:EA-D EK-N, EOH-N, SEG
EE
HEAD CTL
COMP OUT
V.SWP
V.ENV.DET
NTSC
SECAM
SEC.MES
V.TUNE
NP
EP/SP
PL/SE/NT
C.K.DET
S.DET
C.ROT
CNR
TRICK
TUNE-H
C.SYNC
VP
NC.CTL
YNR
PIC/V.REC
CT DET
A.MUTE
WS/NOR
WS.J
TV/VCR
SAT
DEC.CTL
I2C SCL
I2C SDA
I2C CLK
I2C DATA
I2C EN
M3L SCL
M3L SDA
DAVN
D.GND
AV1/AV2
INT/EXT
TO MAIN PCB 3/5
AL12V
TO MAIN PCB 4/5 (RF BLK)
AL5V
IDL12V
IDL5V
V.GND
TO MAIN PCB 5/5 (POWER BLK)
CONV.A
CONV.V
TU.VIDEO
TO MAIN PCB 4/5 (RF BLK)
F
G
H
I
J
8
7
6
5
4
3
2
1

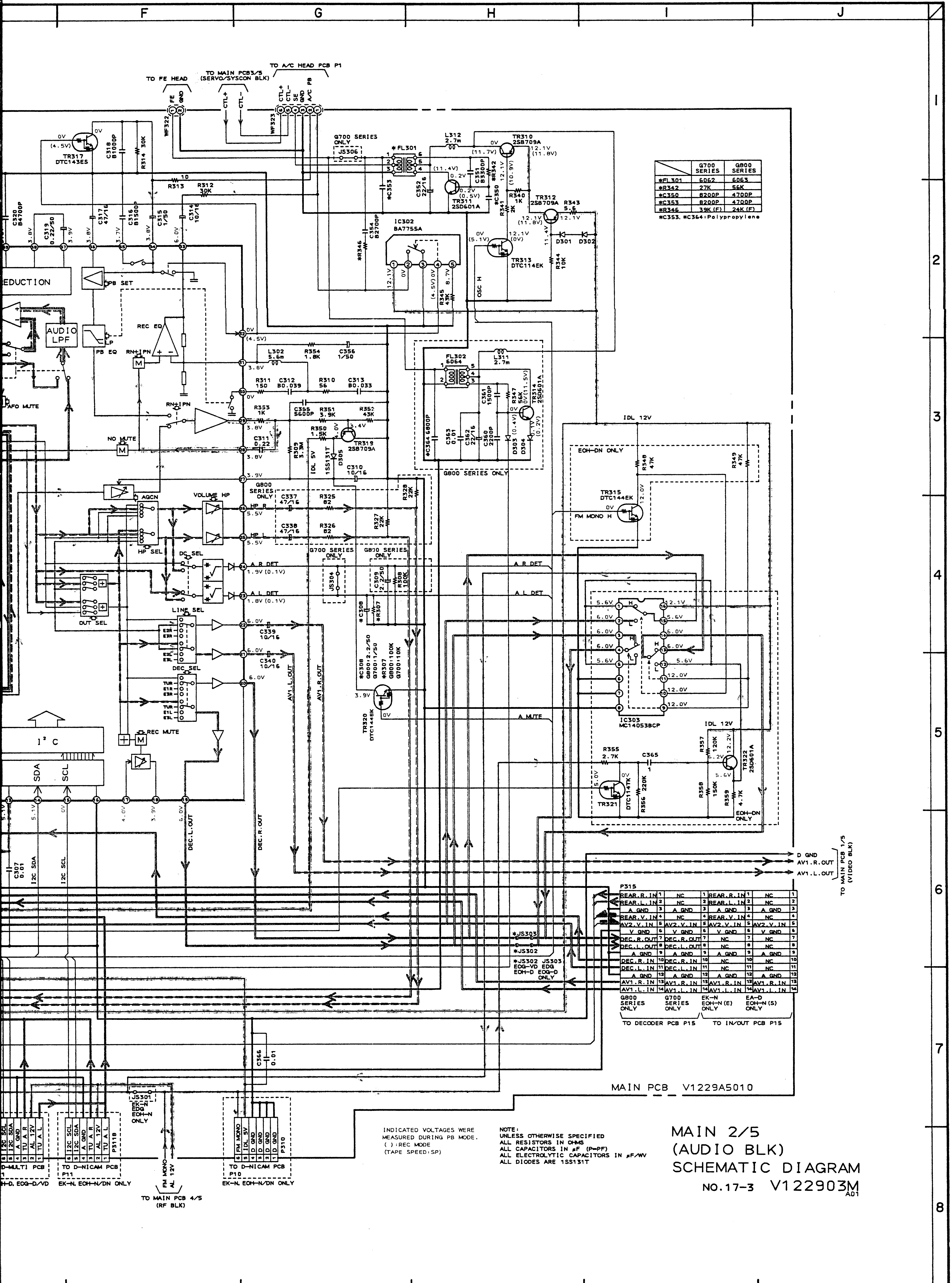
INDICATED VOLTAGES WERE
MEASURED DURING PB MODE.
(TAPE USED:
PAL COLOUR BAR TAPE)

NOTE:
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS
ALL CAPACITORS IN μF (P=PF)
ALL ELECTROLYTIC CAPACITORS IN μF/WV

MAIN 1/5
(VIDEO BLK)
SCHEMATIC DIAGRAM

NO.17-2 V12290 2M


8
7
6
5
4
3
2
1
A
B
C
D
E
F
TO PRE AMP PCB P506
P506
1 A SWP
2 HIFI DET
3 PB ENVE
4 REC MUTE
5 REC A FM
6 A INSERT
7 A GND
8 REC/PB
9 A GND
HIFI DET
T MUTE
REC/PB
A INSERT
A SWP
REC/MUTE
MIC H
VR HP
VR REC
FM MONO H
DECODER H
OSC H
A MUTE
A L DET
A R DET
I2C SDA
I2C SCL
D GND
A GND
TO MAIN PCB 3/5 (SERVO/SYSCON BLK)
TR318
2SB709A
R320
2.2K
R319
10K
R318
15K
IDL 5V
TR301
DTC144EK
TR302
DTA144EK
G700: ONLY
EK-N EOH-N (E)
P301A
G700: EXCEPT
EK-N EOH-N (E)
P301B
TO OPERATION-L PCB P101
R.R.IN
R.L.IN
IDL 12V
AV2 L IN
AV2 R IN
A GND
NC
R.V.IN
V GND
AV2 V IN
L304
47
TR303
DTC114TK
EXCEPT EDG
TR304
DTC114TK
IC301
TDA9614H
R301
220K
*R302A 10K
*R302B 0Ω
*R302A
EDG EK-N EOH-N ONLY
*R302B
EOH-DN ONLY
HP R
HP GND
HP L
MIC H
VR HP
MIC IN
VR REC
R R IN
R L IN
TO FRONT-H PCB P101
P301
G800: EA-D ONLY
P301
G800: EXCEPT EA-D
B (POWER SUPPLY) LINE
PB NORMAL SIGNAL LINE
REC NORMAL SIGNAL LINE
AUDIO PB SIGNAL LINE
AUDIO REC SIGNAL LINE
VIDEO IN SIGNAL LINE
R303 220K
R304 10K
R306 10K
R305 220K
TR305
DTC114TK
C301
1
C302
1/50
C303
1/50
C304
C305
C341
1/50
C342
1/50
C357
1/50
C358
1/50
MONO
TUNER
MIC
AV1
DEC
AV2
INPUT SEL
VOLUME R
VOLUME L
MUTE
NORMAL SEL
C336
10/16
C335
0.47/50
R322
10K
C334
CH100P
C333
0.01
C332
47/6.3
R321
22K(F)
C331
0.01
R317
8.2K(F)
R316
18K(F)
C330
10/16
C343
47/16
A SWP
IDL 5 V
PB AFM
REC FM
HF AGC
BPF
LEVEL DETECT
HF LIMITER
HF LPF
RAF
PLL
CCO
1.8MHZ
1.7MHZ
1.4MHZ
1.3MHZ
S&H
AUDIO CLIPPER
DOC
SUPPLY&VREF
IREF
AUDIO LPF
NOISE REDUCTION
AFO MUTE
RAF&IPAF
IDL 12 V
L303
47
C329
0.01
C328 47/16
R315
180K (F)
C327
0.22/50
C326
B4700P
C325
22/16
C324
10/16
C323
2.2/50
C322
10/16
C321
22/16
C320
B4700P
C319
0.22/50
C317
47/16
C316
B1500P
C315
1/50
C318
B1000P
R314 30K
TR317
DTC143EES
TO MAIN PCB 5/5 (POWER BLK)
IDL5V
IDL12V
IDL 5V
L301
47
C306
47/6.3
C307
0.01
I2C SDA
I2C SCL
SDA
SCL
I²C
P311A
TO D-MULTI PCB P711
EA-D, EOH-D, EOG-D/VD ONLY
D GND
I2C SCL
I2C SDA
A GND
TU A R
AL 12V
TU A L
P311B
TO D-NICAM PCB P11
EK-N, EOH-N, EOH-V/DN ONLY
OUT SEL
HP SEL
AGCN
NO MUTE
PB EQ
PB SET
REC EQ
TO MAIN (RF B
FM MONO
AL 12V
TO FE
WF322
3.8V
3.7V
3.9V
4.0V
5.1V
2.5V
11.9V
4.3V
5.0V
0V


F
G
H
I
J
1
2
3
4
5
6
7
8
11
TO FE HEAD
TO MAIN PCB3/5 (SERVO/SYSCON BLK)
TO A/C HEAD PCB P1
WF322
FE
GND
CTL+
CTL-
WF323
SE
A/C PB
TR317 DTC143ES
C318 B1000P
R314 30K
R313 10
R312 30K
C320 B4700P
C319 0.22/50
C317 47/16
C316 B1500P
C315 1/50
C314 10/16
EDUCTION
PB SET
AUDIO LPF
REC EQ
PB EQ
RN+IPN
AFO MUTE
NO MUTE
G700 SERIES ONLY
JS306
*FL301
L312 2.7m
TR310 2SB709A
C351 B3300P
*R342
*C350
*C353
C352 22/16
TR311 2SD601A
R340 1K
R341 2K
TR312 2SB709A
R343 5.6
C354 B2700P
*R346
IC302 BA7755A
D301
D302
R344 10K
TR313 DTC114EK
OSC H
R345 43K
L302 5.6m
R354 1.8K
C356 1/50
R311 150
C312 B0.039
R310 56
C313 B0.033
FL302 6064
L311 2.7m
R353 1K
C355 5600P
R351 3.9K
R352 43K
R350 1.5K
C311 0.22
R309 3.3M
IDL 5V
1SS131T
D305
TR319 2SB709A
C310 10/16
*C364 6800P
C363 0.01
C362 22/16
C360 2200P
C361 1500P
R347 56K
TR314 2SD601A
D303
D304
G800 SERIES ONLY
IDL 12V
EOH-DN ONLY
R348 47K
R349 47K
TR315 DTC144EK
FM MONO H
AGCN
VOLUME HP
HP SEL
HP R
HP L
C337 47/16
C338 47/16
R325 82
R326 82
R327 22K
R328 22K
DC SEL
A.R.DET
A.L.DET
JS304
C309 2.2/50
R308 100K
*C308
*R307
*C308 G800:2.2/50 G700:1/50
*R307 G800:100K G700:10K
TR320 DTC144EK
OUT SEL
LINE SEL
DEC SEL
C339 10/16
C340 10/16
AV1.L.OUT
AV1.R.OUT
A MUTE
IC303 MC14053BCP
R355 2.7K
C365
R357 120K
TR322 2SD601A
TR321 DTC114TK
R356 220K
R358 150K
R359 4.7K
I²C
SDA
SCL
REC MUTE
DEC.L.OUT
DEC.R.OUT
C307 0.01
I2C SDA
I2C SCL
C366 0.01
D GND
AV1.R.OUT
AV1.L.OUT
TO MAIN PCB 1/5 (VIDEO BLK)
*JS303
*JS302
*JS302 JS303
EOG-VD EDG
EOH-D EOG-D ONLY
JS301
EK-N
EDG
EOH-N ONLY
I2C SCL
I2C SDA
A GND
TU A R
AL 12V
TU A L
D-MULTI PCB
H-D, EOG-D/VD
TO D-NICAM PCB
P311
P311B
EK-N, EOH-N/DN ONLY
FM MONO
AL 12V
TO MAIN PCB 4/5 (RF BLK)
FM MONO
IDL 5V
D GND
P310
TO D-NICAM PCB
P10
EK-N, EOH-N/DN ONLY

	G700 SERIES	G800 SERIES
*FL301	6062	6063
*R342	27K	56K
*C350	8200P	4700P
*C353	8200P	4700P
*R346	39K (F)	24K (F)

*C353, *C364:Polypropylene

P315

G800 SERIES ONLY		G700 SERIES ONLY		EK-N EOH-N (E) ONLY		EA-D EOH-N (S) ONLY	
REAR.R.IN	1	NC	1	REAR.R.IN	1	NC	1
REAR.L.IN	2	NC	2	REAR.L.IN	2	NC	2
A GND	3	A GND	3	A GND	3	A GND	3
REAR.V.IN	4	NC	4	REAR.V.IN	4	NC	4
AV2.V.IN	5	AV2.V.IN	5	AV2.V.IN	5	AV2.V.IN	5
V GND	6	V GND	6	V GND	6	V GND	6
DEC.R.OUT	7	DEC.R.OUT	7	NC	7	NC	7
DEC.L.OUT	8	DEC.L.OUT	8	NC	8	NC	8
A GND	9	A GND	9	A GND	9	A GND	9
DEC.R.IN	10	DEC.R.IN	10	NC	10	NC	10
DEC.L.IN	11	DEC.L.IN	11	NC	11	NC	11
A GND	12	A GND	12	A GND	12	A GND	12
AV1.R.IN	13	AV1.R.IN	13	AV1.R.IN	13	AV1.R.IN	13
AV1.L.IN	14	AV1.L.IN	14	AV1.L.IN	14	AV1.L.IN	14

TO DECODER PCB P15 TO IN/OUT PCB P15

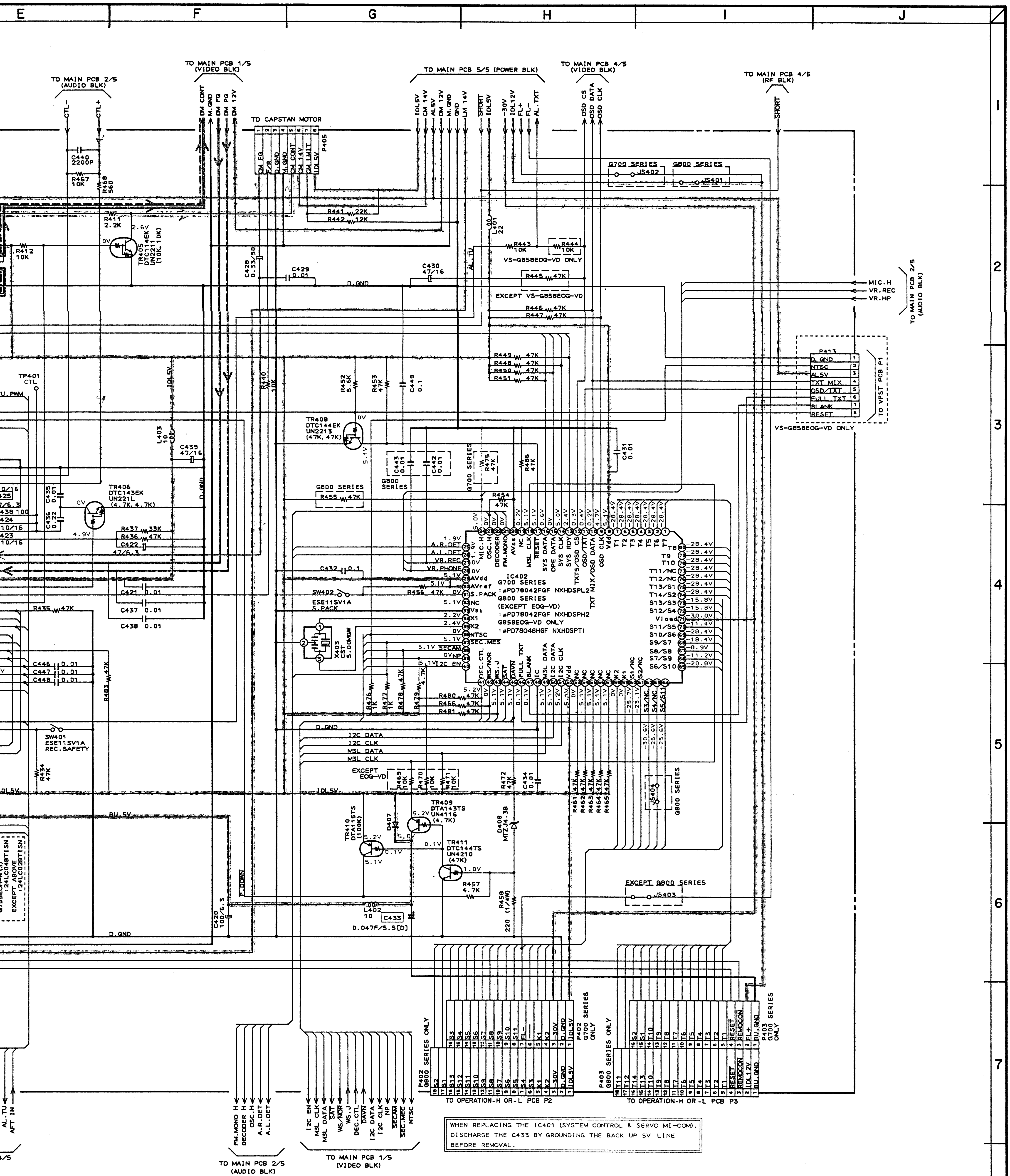
MAIN PCB V1229A5010

INDICATED VOLTAGES WERE
MEASURED DURING PB MODE.
( ):REC MODE
(TAPE SPEED:SP)

NOTE:
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS
ALL CAPACITORS IN µF (P=PF)
ALL ELECTROLYTIC CAPACITORS IN µF/WV
ALL DIODES ARE 1SS131T

MAIN 2/5
(AUDIO BLK)
SCHEMATIC DIAGRAM

NO.17-3 V122903M A01


TO MAIN PCB 2/5 (AUDIO BLK)
CTL-
CTL+
TO MAIN PCB 1/5 (VIDEO BLK)
DM CONT
M.GND
DM FG
DM PG
DM 12V
TO CAPSTAN MOTOR
P405
CM FG
F/R
D.GND
M.GND
CM CONT
CM 14V
CM LMIT
IDL5V
TO MAIN PCB 5/5 (POWER BLK)
IDL5V
CM 14V
AL5V
DM 12V
M.GND
GND
LM 14V
SHORT
IDL5V
-30V
IDL12V
FL+
FL-
AL.TXT
TO MAIN PCB 4/5 (VIDEO BLK)
OSD CS
OSD DATA
OSD CLK
TO MAIN PCB 4/5 (RF BLK)
SHORT
G700 SERIES
JS402
G800 SERIES
JS401
MIC.H
VR.REC
VR.HP
TO MAIN PCB 2/5 (AUDIO BLK)
P413
D.GND
NTSC
AL5V
TXT MIX
OSD/TXT
FULL TXT
BLANK
RESET
TO VPST PCB P1
VS-G858EOG-VD ONLY
R443 10K
R444 10K
VS-G858EOG-VD ONLY
R445 47K
EXCEPT VS-G858EOG-VD
R446 47K
R447 47K
R449 47K
R448 47K
R450 47K
R451 47K
L401 22
C440 2200P
R467 10K
R468 560
R441 22K
R442 12K
R411 2.2K
R412 10K
TR405 DTC114EK UN2211 (10K, 10K)
C428 0.33/50
C429 0.01
C430 47/16
D.GND
TP401 CTL
R440 10K
IDL5V
L403 10
C439 47/16
R452 5.6K
R453 47K
C449 0.1
TR408 DTC144EK UN2213 (47K, 47K)
C443 0.01
C442 0.01
G800 SERIES
G700 SERIES
R475 47K
R486 47K
C431 0.01
R454 47K
G800 SERIES
R455 47K
TR406 DTC143EK UN221L (4.7K, 4.7K)
C435 0.01
C436 0.22
R437 33K
R436 47K
C422 47/6.3
C432 0.1
SW402 ESE11SV1A S.PACK
R456 47K
X403 CST 5.00MGW
C421 0.01
C437 0.01
C438 0.01
R435 47K
C446 0.01
C447 0.01
C448 0.01
R483 47K
SW401 ESE11SV1A REC.SAFETY
R434 47K
IC402
G700 SERIES
:µPD78042FGF NXHDSPL2
G800 SERIES
(EXCEPT EOG-VD)
:µPD78042FGF NXHDSPH2
G858EOG-VD ONLY
:µPD78046HGF NXHDSPTI
A.R.DET
A.L.DET
VR.REC
VR.PHONE
AVdd
AVref
S.FACK
NC
Vss
X1
X2
NTSC
SEC.MES
SECAM
NP
I2C EN
MIC.H
OSC.H
DECODER
FM.MONO
AVss
NC
M3L CLK
RESET
SYS DATA
OPE DATA
SYS CLK
SYS RDY
TXTS/OSD CS
OSD/TXT
TXT MIX/OSD DATA
OSD CLK
Vdd
T1
T2
T3
T4
T5
T6
T7
T8
T9
T10
T11/NC
T12/NC
T13/S1
T14/S2
S13/S3
S12/S4
Vload
S11/S5
S10/S6
S9/S7
S8/S8
S7/S9
S6/S10
DEC.CTL
WS/NOR
WS.J
SAT
DAVN
FULL TXT
BLANK
IC
M3L DATA
I2C DATA
I2C CLK
Vdd
S1/NC
S2/NC
S3/NC
S4/NC
S5/S11
R476 1K
R477 1K
R478 47K
R479 4.7K
R480 47K
R466 47K
R481 47K
D.GND
I2C DATA
I2C CLK
M3L DATA
M3L CLK
EXCEPT EOG-VD
R469 10K
R470 10K
R471 10K
R472 47K
C434 0.01
R461 47K
R462 47K
R463 47K
R464 47K
R465 47K
JS404
G800 SERIES
IDL5V
BU.5V
TR409 DTA143TS UN4116 (4.7K)
TR410 DTA115TS (100K)
D407
TR411 DTC144TS UN4210 (47K)
D408 MTZJ4.3B
R457 4.7K
R458 220 (1/4W)
EXCEPT G800 SERIES
JS403
P.DOWN
C420 100/6.3
L402 10
C433 0.047F/5.5[D]
D.GND
EXCEPT ABOVE :24LC02BT1SN
:24LC04BT1SN
P402 G800 SERIES ONLY
P402 G700 SERIES ONLY
TO OPERATION-H OR-L PCB P2
P403 G800 SERIES ONLY
P403 G700 SERIES ONLY
TO OPERATION-H OR-L PCB P3
RESET
REMOCON
IDL12V
FL+
BU.GND
D.GND
IDL5V
-30V
AL.TU
AFT IN
FM.MONO H
DECODER H
OSC.H
A.R.DET
A.L.DET
TO MAIN PCB 2/5 (AUDIO BLK)
I2C EN
M3L CLK
M3L DATA
SAT
WS/NOR
WS.J
DEC.CTL
DAVN
I2C DATA
I2C CLK
NP
SECAM
SEC.MEC
NTSC
TO MAIN PCB 1/5 (VIDEO BLK)
E
F
G
H
I
J
1
2
3
4
5
6
7
8

WHEN REPLACING THE IC401 (SYSTEM CONTROL & SERVO MI-COM), DISCHARGE THE C433 BY GROUNDING THE BACK UP 5V LINE BEFORE REMOVAL.

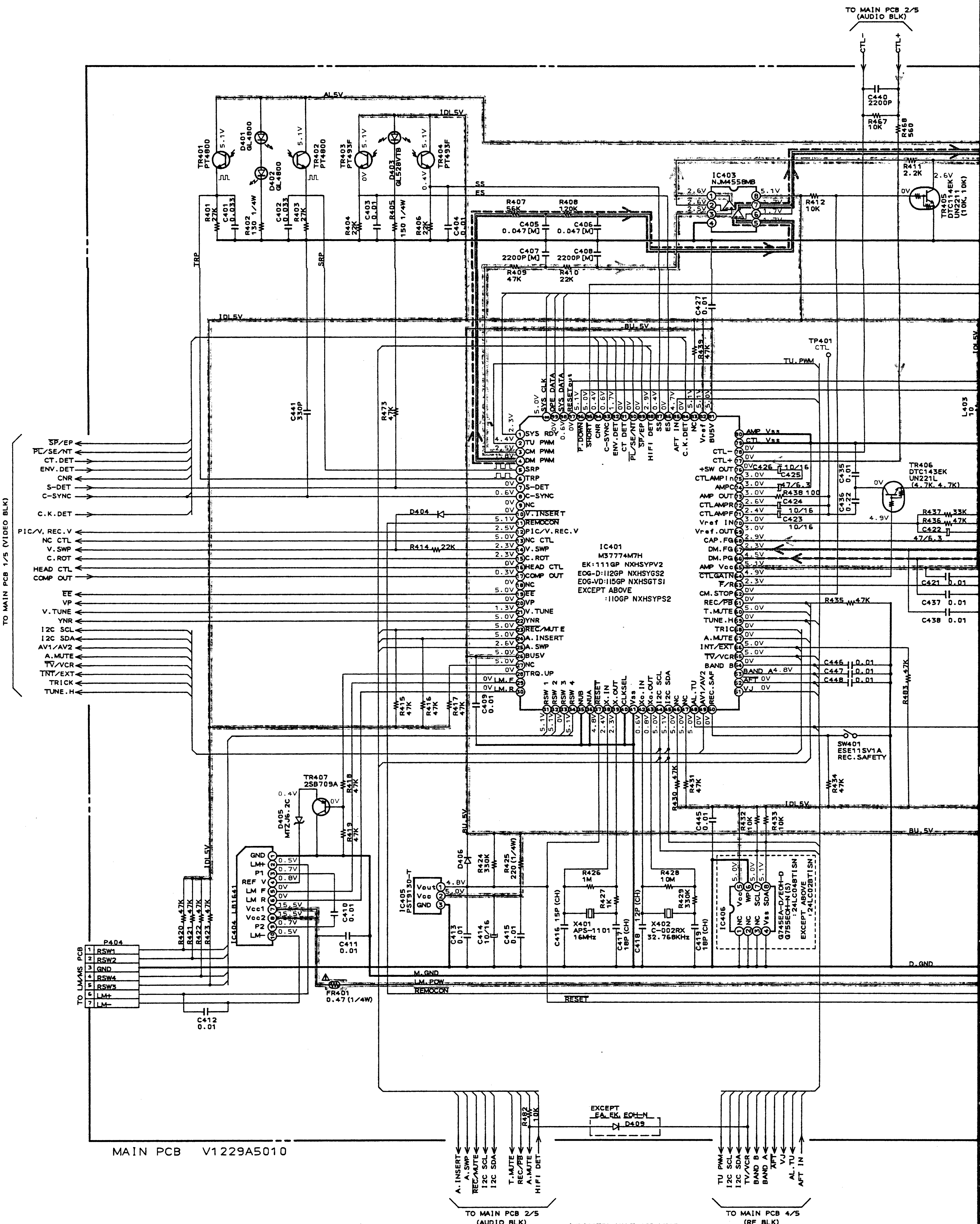
WARNING: ⚠ AND ▨ INDICATE SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY. REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSMENT: ⚠ ET ▨, ILS INDIQUENT LES COMPOSTANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L' APPAREIL NE REMPLACER QUE DES PIÈCES RECOMMANDEES PAR LE FABRICANT

B (POWER SUPPLY) LINE
CAPSTAN MOTOR PHASE CONTROL LINE
CAPSTAN MOTOR SPEED CONTROL LINE
DRUM MOTOR PHASE CONTROL LINE
DRUM MOTOR SPEED CONTROL LINE

MAIN 3/5
(SERVO/SYSCON BLK)
SCHEMATIC DIAGRAM

NO.17-4 V122904M A01


TO MAIN PCB 2/5 (AUDIO BLK)
CTL-
CTL+
TO MAIN PCB 1/5 (VIDEO BLK)
SP/EP
PL/SE/NT
CT.DET
ENV.DET
CNR
S-DET
C-SYNC
C.K.DET
PIC/V.REC.V
NC CTL
V.SWP
C.ROT
HEAD CTL
COMP OUT
EE
VP
V.TUNE
YNR
I2C SCL
I2C SDA
AV1/AV2
A.MUTE
TV/VCR
TNT/EXT
TRICK
TUNE.H
IC401
M37774M7H
EK:111GP NXHSYPV2
EOG-D:112GP NXHSYGS2
EOG-VD:115GP NXHSGTSI
EXCEPT ABOVE
:110GP NXHSYPS2
IC403
NJM4558MB
IC404 LB1641
IC405
PST9130-T
IC406
G745EA-D/EOH-D
G755EOH-N(S)
:24LC04BTISN
EXCEPT ABOVE
:24LC02BTISN
X401
APS-1101
16MHz
X402
C-002RX
32.768KHz
TR401 PT4800
TR402 PT4800
TR403 PT493F
TR404 PT493F
TR405 DTC114EK UN2211 (10K, 10K)
TR406 DTC143EK UN221L (4.7K, 4.7K)
TR407 2SB709A
D401 GL4800
D402 GL4800
D403 GL528VTB
D405 MTZJ6.2C
D409
EXCEPT EA, EK, EOH-N
SW401 ESE11SV1A REC.SAFETY
TP401 CTL
FR401 0.47(1/4W)
P404
TO LM/MS PCB
RSW1
RSW2
GND
RSW4
RSW3
LM+
LM-
M.GND
LM.PDW
REMOCON
RESET
D.GND
TO MAIN PCB 2/5 (AUDIO BLK)
A.INSERT
A.SWP
REC/MUTE
I2C SCL
I2C SDA
T.MUTE
REC/PB
A.MUTE
HIFI DET
TO MAIN PCB 4/5 (RF BLK)
TU PWM
I2C SCL
I2C SDA
TV/VCR
BAND B
BAND A
AFT
VJ
AL.TU
AFT IN

MAIN PCB V1229A5010

CAUTION: IF THE IC406 (EEP-ROM) IS REPLACED, THE FOLLOWING SHOULD BE PERFORMED TO MAINTAIN PROPER PERFORMANCE. REFER TO THE "INFORMATION" SECTION IN THE PROVIDED SERVICE MANUAL OR OPERATOR'S MANUAL FOR 6.

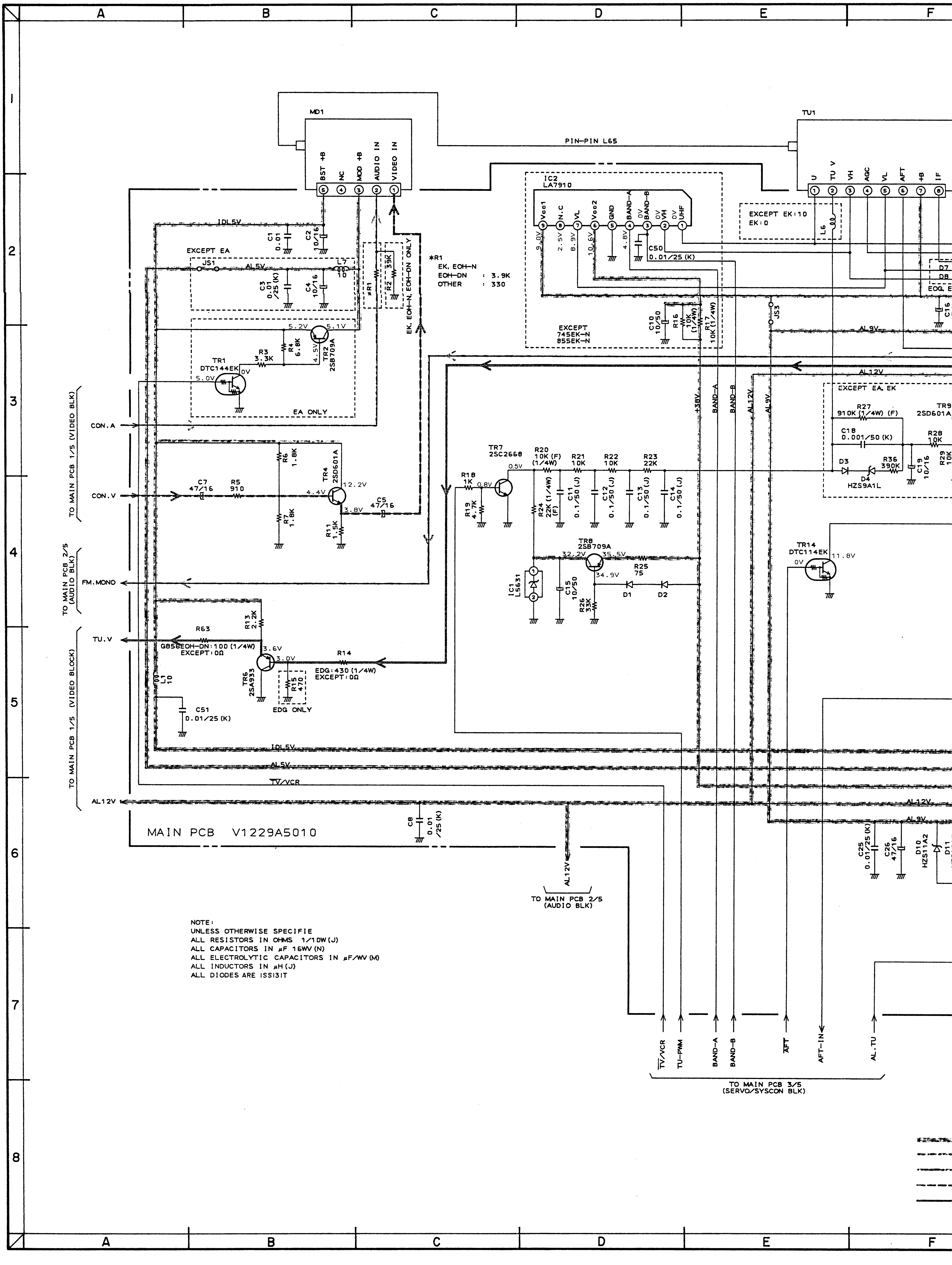
1. MODEL CODE PRESET
2. SWITCHING POINT PRESET
3. I-HQ PRESET
4. AUDIO LEVEL METER SENSITIVITY PRESET
5. TRACKING CENTRE POSITION (1F) CHECK
6. TUNER PRESET

INDICATED VOLTAGES WERE MEASURED DURING PB MODE. (TAPE USED: PAL RECORDED TAPE) (TAPE SPEED: SP)

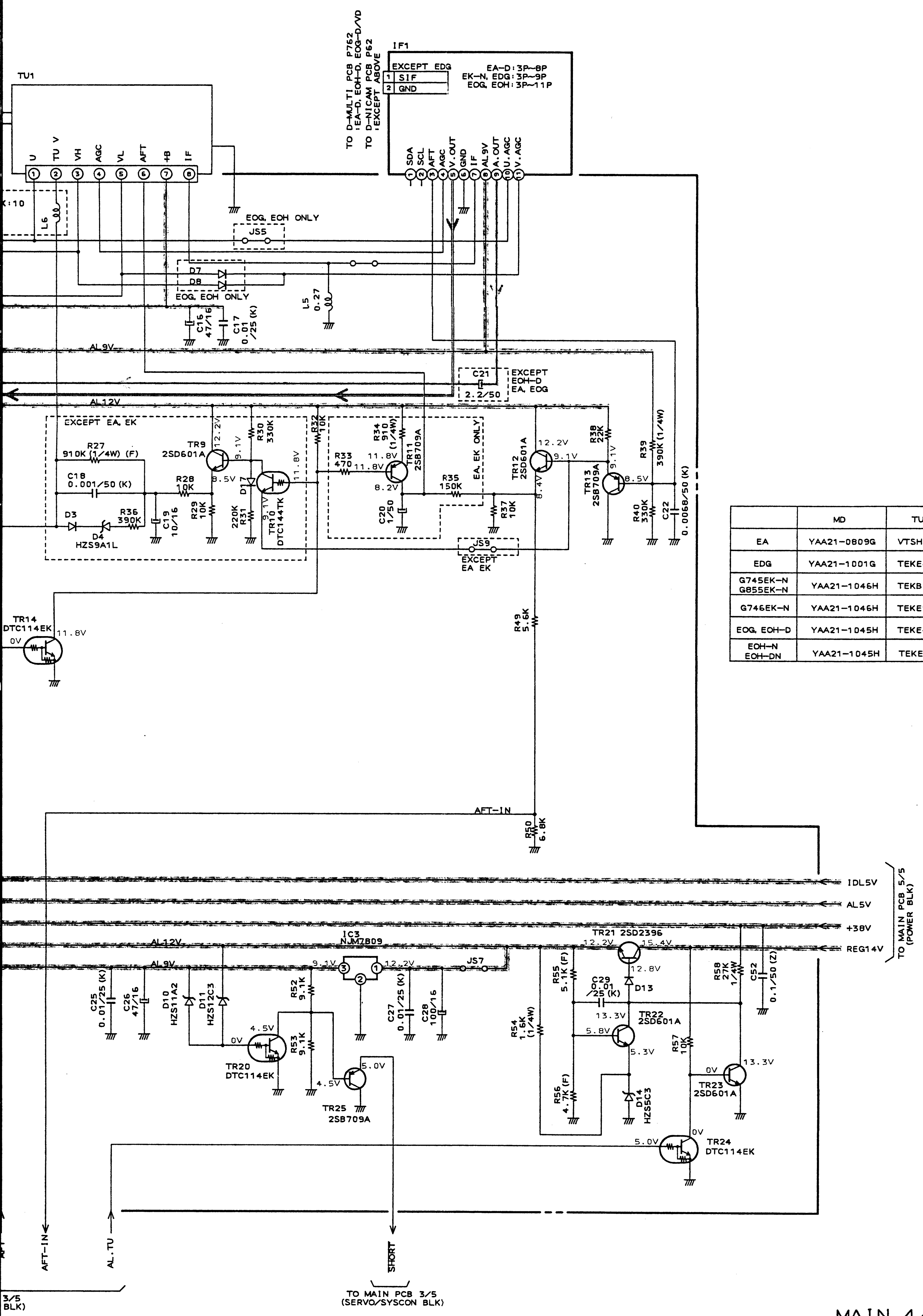
NOTE:
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS
ALL CAPACITORS IN µF (P=PF)
ALL ELECTROLYTIC CAPACITORS IN µF/WV
ALL INDUCTORS IN µH
[M] IS MYLAR CAPACITOR
ALL DIODES ARE 1SS131T

WARNING: ⚠ AND ▨ INDICATE SAFETY
COMPONENTS FOR CONTINUED S
REPLACE SAFETY CRITICAL CO
ONLY WITH MANUFACTURER'S R
PARTS

AVERTISSMENT: ⚠ ET ▨, ILS INDIQU
COMPOSTANTS CRITIQUES DE S
POUR MAINTENIR LE DEGRÉ DE
DE L'APPAREIL, NE REMPLACER
PIÈCES RECOMMANDEES PAR LE


A
B
C
D
E
F
1
2
3
4
5
6
7
8
MD1
BST +B
NC
MOD +B
AUDIO IN
VIDEO IN
PIN-PIN L65
TU1
U
TU V
VH
AGC
VL
AFT
+B
IF
EXCEPT EK:10
EK:0
L6
IC2
LA7910
Vcc1
N.C
VL
Vcc2
GND
BAND-A
BAND-B
VH
UHF
9.0V
2.5V
8.9V
10.6V
4.8V
0V
C50
0.01/25 (K)
C10
10/50
R16
10K (1/4W)
R17
10K (1/4W)
EXCEPT
745EK-N
855EK-N
JS3
D7
D8
EDG, E
C16
IDL5V
AL5V
AL9V
AL12V
+38V
C1
0.01
C2
10/16
EXCEPT EA
JS1
L7
10
C3
0.01
/25 (K)
C4
10/16
*R1
R2
39K
EK, EOH-N, EOH-DN ONLY
*R1
EK, EOH-N
EOH-DN : 3.9K
OTHER : 330
5.2V
5.1V
4.5V
TR2
2SB709A
R3
3.3K
R4
6.8K
TR1
DTC144EK
5.0V
0V
EA ONLY
CON.A
CON.V
TO MAIN PCB 1/5 (VIDEO BLK)
R6
1.8K
R7
1.8K
C7
47/16
R5
910
4.4V
TR4
2SD601A
12.2V
3.8V
C5
47/16
R11
1.5K
TO MAIN PCB 2/5 (AUDIO BLK)
FM.MONO
TU.V
R63
GB56EOH-DN:100 (1/4W)
EXCEPT:0Ω
R13
2.2K
3.6V
3.0V
TR6
2SA933
R15
470
EDG ONLY
R14
EDG:430 (1/4W)
EXCEPT:0Ω
L1
10
C51
0.01/25 (K)
TO MAIN PCB 1/5 (VIDEO BLOCK)
TV/VCR
AL12V
C8
0.01
/25 (K)
MAIN PCB V1229A5010
TO MAIN PCB 2/5
(AUDIO BLK)
TR7
2SC2668
0.5V
R18
1K
0.8V
R19
4.7K
R20
10K (F)
(1/4W)
R21
10K
R22
10K
R23
22K
R24
22K (1/4W)
(F)
C11
0.1/50 (J)
C12
0.1/50 (J)
C13
0.1/50 (J)
C14
0.1/50 (J)
TR8
2SB709A
32.2V
35.5V
34.9V
R25
75
D1
D2
IC1
L5631
C15
10/50
R26
33K
EXCEPT EA, EK
R27
910K (1/4W) (F)
TR9
2SD601A
C18
0.001/50 (K)
R28
10K
D3
D4
HZS9A1L
R36
390K
C19
10/16
R29
10K
TR14
DTC114EK
0V
11.8V
C25
0.01/25 (K)
C26
47/16
D10
HZS11A2
D11
TV/VCR
TU-PWM
BAND-A
BAND-B
AFT
AFT-IN
AL.TU
TO MAIN PCB 3/5
(SERVO/SYSCON BLK)

NOTE:
UNLESS OTHERWISE SPECIFIE
ALL RESISTORS IN OHMS 1/10W (J)
ALL CAPACITORS IN μF 16WV (N)
ALL ELECTROLYTIC CAPACITORS IN μF/WV (M)
ALL INDUCTORS IN μH (J)
ALL DIODES ARE ISS13IT

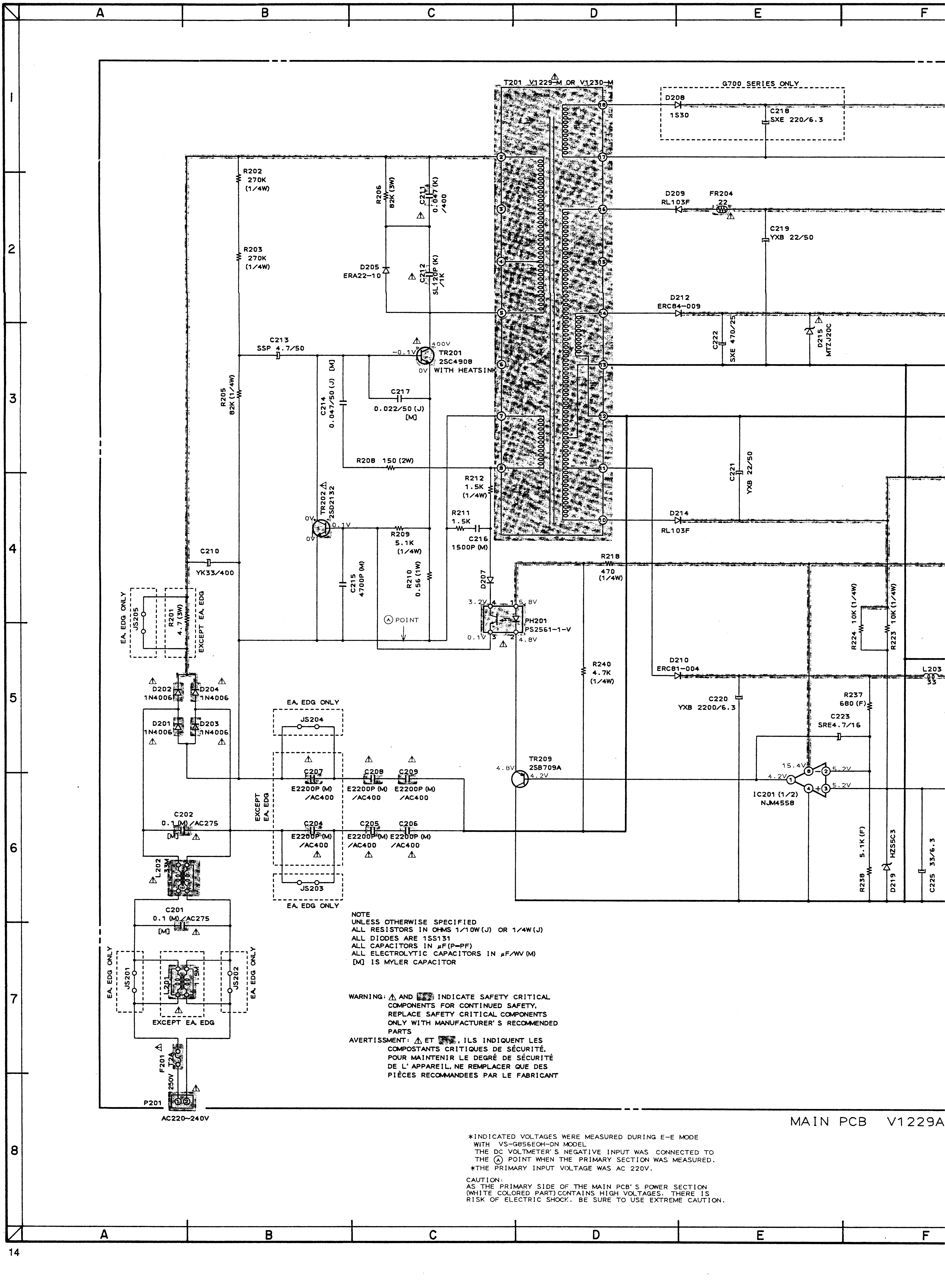

F
G
H
I
J
1
2
3
4
5
6
7
8
TU1
U
TU V
VH
AGC
VL
AFT
+B
IF
K:10
L6
EOG, EOH ONLY
JS5
D7
D8
EOG, EOH ONLY
L5
0.27
C16
47/16
C17
0.01
/25 (K)
TO D-MULTI PCB P762
:EA-D, EOH-D, EOG-D/VD
TO D-NICAM PCB P62
:EXCEPT ABOVE
IF1
EXCEPT EDG
1 SIF
2 GND
EA-D:3P~8P
EK-N, EDG:3P~9P
EOG, EOH:3P~11P
SDA
SCL
AFT
AGC
V.OUT
GND
IF
AL9V
A.OUT
U.AGC
V.AGC
AL9V
AL12V
C21
2.2/50
EXCEPT
EOH-D
EA, EOG
EXCEPT EA, EK
R27
910K (1/4W) (F)
C18
0.001/50 (K)
D3
D4
HZS9A1L
R36
390K
C19
10/16
R28
10K
R29
10K
TR9
2SD601A
12.2V
9.1V
8.5V
R30
330K
D17
220K
R31
9.1V
TR10
DTC144TK
11.8V
R32
10K
R33
470
11.8V
11.8V
TR11
2SB709A
R34
910
(1/4W)
8.2V
C20
1/50
R35
150K
EA, EK ONLY
R37
10K
JS9
EXCEPT
EA EK
TR12
2SD601A
12.2V
9.1V
8.4V
R38
22K
TR13
2SB709A
9.1V
8.5V
R39
390K (1/4W)
R40
330K
C22
0.0068/50 (K)
TR14
DTC114EK
0V
11.8V
R49
5.6K
AFT-IN
R50
6.8K
IDL5V
AL5V
+38V
REG14V
TO MAIN PCB 5/5
(POWER BLK)
AL12V
AL9V
IC3
NJM7809
9.1V
12.2V
JS7
C25
0.01/25 (K)
C26
47/16
D10
HZS11A2
D11
HZS12C3
R52
9.1K
R53
9.1K
C27
0.01/25 (K)
C28
100/16
TR20
DTC114EK
4.5V
0V
TR25
2SB709A
4.5V
5.0V
TR21 2SD2396
12.2V
15.4V
12.8V
D13
R55
5.1K (F)
C29
0.01
/25 (K)
13.3V
TR22
2SD601A
5.8V
5.3V
R54
1.6K
(1/4W)
R56
4.7K (F)
D14
HZS5C3
R57
10K
R58
27K
1/4W
C52
0.1/50 (Z)
TR23
2SD601A
0V
13.3V
TR24
DTC114EK
5.0V
0V
AFT-IN
AL.TU
SHORT
TO MAIN PCB 3/5
(SERVO/SYSCON BLK)
3/5
BLK)

	MD	TUNER	VIF
EA	YAA21-0809G	VTSH6AZ01	HIFI-EA
EDG	YAA21-1001G	TEKE4-168A	NOR-EDG
G745EK-N G855EK-N	YAA21-1046H	TEKB1-014A	HIFI-EK-N
G746EK-N	YAA21-1046H	TEKE1-147A	HIFI-ES-N
EOG, EOH-D	YAA21-1045H	TEKE4-168A	HIFI-EOG
EOH-N EOH-DN	YAA21-1045H	TEKE4-168A	HIFI-EOH-N

B (POWER SUPPLY) LINE
AUDIO OUT SIGNAL LINE
AUDIO IN SIGNAL LINE
VIDEO OUT SIGNAL LINE
VIDEO IN SIGNAL LINE

INDICATED VOLTAGES WERE
MEASURED DURING PB MODE.
(TAPE SPEED:SP)

MAIN 4/5
(RF BLK)
SCHEMATIC DIAGRAM
NO.17-5 V122905M A1


A
B
C
D
E
F
1
2
3
4
5
6
7
8
T201 V1229-M OR V1230-M
G700 SERIES ONLY
D208
1S30
C218
SXE 220/6.3
R202
270K
(1/4W)
R203
270K
(1/4W)
R206
82K (3W)
C211
0.047 (K)
/400
D205
ERA22-10
C212
SL120P (K)
/1K
D209
RL103F
FR204
22
C219
YXB 22/50
D212
ERC84-009
C222
SXE 470/25
D215
MTZJ20C
C213
SSP 4.7/50
TR201
2SC4908
WITH HEATSINK
400V
-0.1V
0V
R205
82K (1/4W)
C214
0.047/50 (J)
[M]
C217
0.022/50 (J)
[M]
R208 150 (2W)
C221
YXB 22/50
R212
1.5K
(1/4W)
R211
1.5K
C216
1500P (M)
TR202
2SD2132
0V
0.1V
R209
5.1K
(1/4W)
D214
RL103F
C210
YK33/400
C215
4700P (M)
R210
0.56 (1W)
D207
R218
470
(1/4W)
PH201
PS2561-1-V
3.2V
5.8V
0.1V
4.8V
Ⓐ POINT
R224 10K (1/4W)
R223 10K (1/4W)
EA, EDG ONLY
JS205
R201
4.7 (3W)
EXCEPT EA, EDG
R240
4.7K
(1/4W)
D210
ERC81-004
L203
33
D202
1N4006
D204
1N4006
D201
1N4006
D203
1N4006
EA, EDG ONLY
JS204
C220
YXB 2200/6.3
R237
680 (F)
C223
SRE4.7/16
EXCEPT EA, EDG
C207
E2200P (M)
/AC400
C208
E2200P (M)
/AC400
C209
E2200P (M)
/AC400
TR209
2SB709A
4.8V
4.2V
15.4V
5.2V
IC201 (1/2)
NJM4558
C202
0.1 (M) /AC275
[M]
C204
E2200P (M)
/AC400
C205
E2200P (M)
/AC400
C206
E2200P (M)
/AC400
R238 5.1K (F)
D219 HZS5C3
C225 33/6.3
L202
33M
JS203
EA, EDG ONLY
C201
0.1 (M) /AC275
[M]
JS201
L201
1.5M
JS202
EXCEPT EA, EDG
F201
T2A
250V
P201
AC220~240V

NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/10W(J) OR 1/4W(J)
ALL DIODES ARE 1SS131
ALL CAPACITORS IN μF(P=PF)
ALL ELECTROLYTIC CAPACITORS IN μF/WV (M)
[M] IS MYLER CAPACITOR

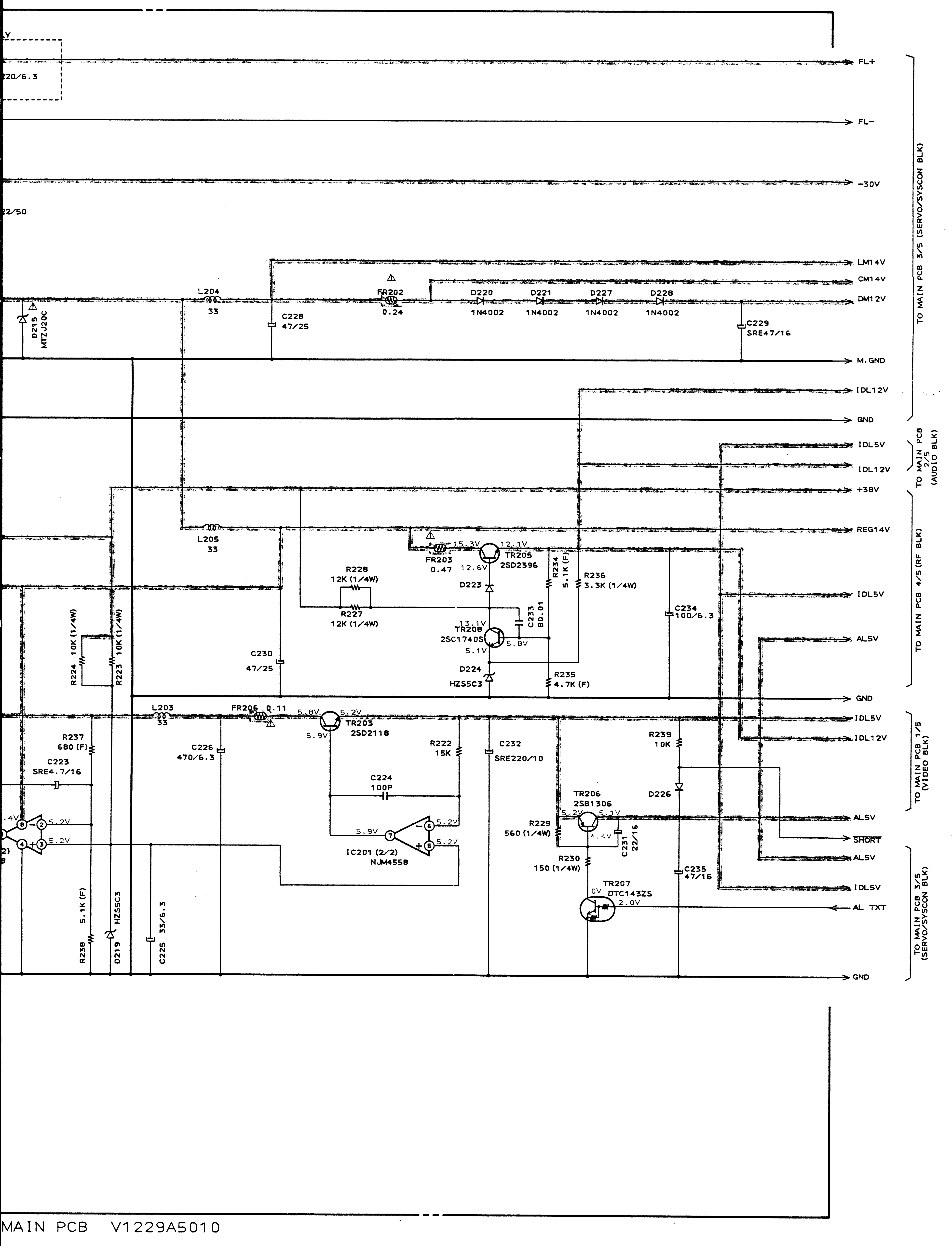
WARNING: ⚠ AND ▨ INDICATE SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY. REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSMENT: ⚠ ET ▨, ILS INDIQUENT LES COMPOSTANTS CRITIQUES DE SÉCURITÉ, POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDEES PAR LE FABRICANT

MAIN PCB V1229A

*INDICATED VOLTAGES WERE MEASURED DURING E-E MODE WITH VS-G856EOH-DN MODEL
THE DC VOLTMETER'S NEGATIVE INPUT WAS CONNECTED TO THE Ⓐ POINT WHEN THE PRIMARY SECTION WAS MEASURED.
*THE PRIMARY INPUT VOLTAGE WAS AC 220V.

CAUTION:
AS THE PRIMARY SIDE OF THE MAIN PCB'S POWER SECTION (WHITE COLORED PART) CONTAINS HIGH VOLTAGES. THERE IS RISK OF ELECTRIC SHOCK. BE SURE TO USE EXTREME CAUTION.


F
G
H
I
J
1
2
3
4
5
6
7
8
20/6.3
22/50
FL+
FL−
−30V
LM14V
CM14V
DM12V
M.GND
IDL12V
GND
IDL5V
IDL12V
+38V
REG14V
IDL5V
AL5V
GND
IDL5V
IDL12V
AL5V
SHORT
AL5V
IDL5V
AL TXT
GND
TO MAIN PCB 3/5 (SERVO/SYSCON BLK)
TO MAIN PCB 2/5 (AUDIO BLK)
TO MAIN PCB 4/5 (RF BLK)
TO MAIN PCB 1/5 (VIDEO BLK)
TO MAIN PCB 3/5 (SERVO/SYSCON BLK)
D215
MTZJ20C
L204
33
C228
47/25
FR202
0.24
D220
1N4002
D221
1N4002
D227
1N4002
D228
1N4002
C229
SRE47/16
L205
33
FR203
0.47
15.3V
12.1V
TR205
2SD2396
12.6V
D223
R234
5.1K (F)
R236
3.3K (1/4W)
R228
12K (1/4W)
R227
12K (1/4W)
C233
B0.01
13.1V
TR208
2SC1740S
5.8V
5.1V
D224
HZS5C3
C234
100/6.3
R224 10K (1/4W)
R223 10K (1/4W)
C230
47/25
R235
4.7K (F)
L203
33
FR206 0.11
5.8V
5.2V
TR203
2SD2118
5.9V
R237
680 (F)
C223
SRE4.7/16
C226
470/6.3
R222
15K
C232
SRE220/10
C224
100P
R239
10K
D226
TR206
2SB1306
5.2V
5.1V
4.4V
R229
560 (1/4W)
C231
22/16
5.2V
5.2V
5.9V
5.2V
5.2V
.4V
IC201 (2/2)
NJM4558
R230
150 (1/4W)
TR207
DTC143ZS
0V
2.0V
C235
47/16
R238 5.1K (F)
D219 HZS5C3
C225 33/6.3
MAIN PCB V1229A5010
B (POWER SUPPLY) LINE

MAIN 5/5
(POWER BLK)
SCHEMATIC DIAGRAM
NO.17-6 V122906M
A1

PRINCIPAL PARTS LOCATION

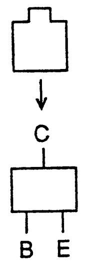
ICs	
IC1	H4
IC2	H5
IC3	H1
IC201	B3
IC301	F5
IC302	E4
IC303	E,F6
IC401	F3
IC402	D1
IC403	E3
IC404	F2
IC405	F2
IC601	C3,4
IC620	C3
IC670	B,C6

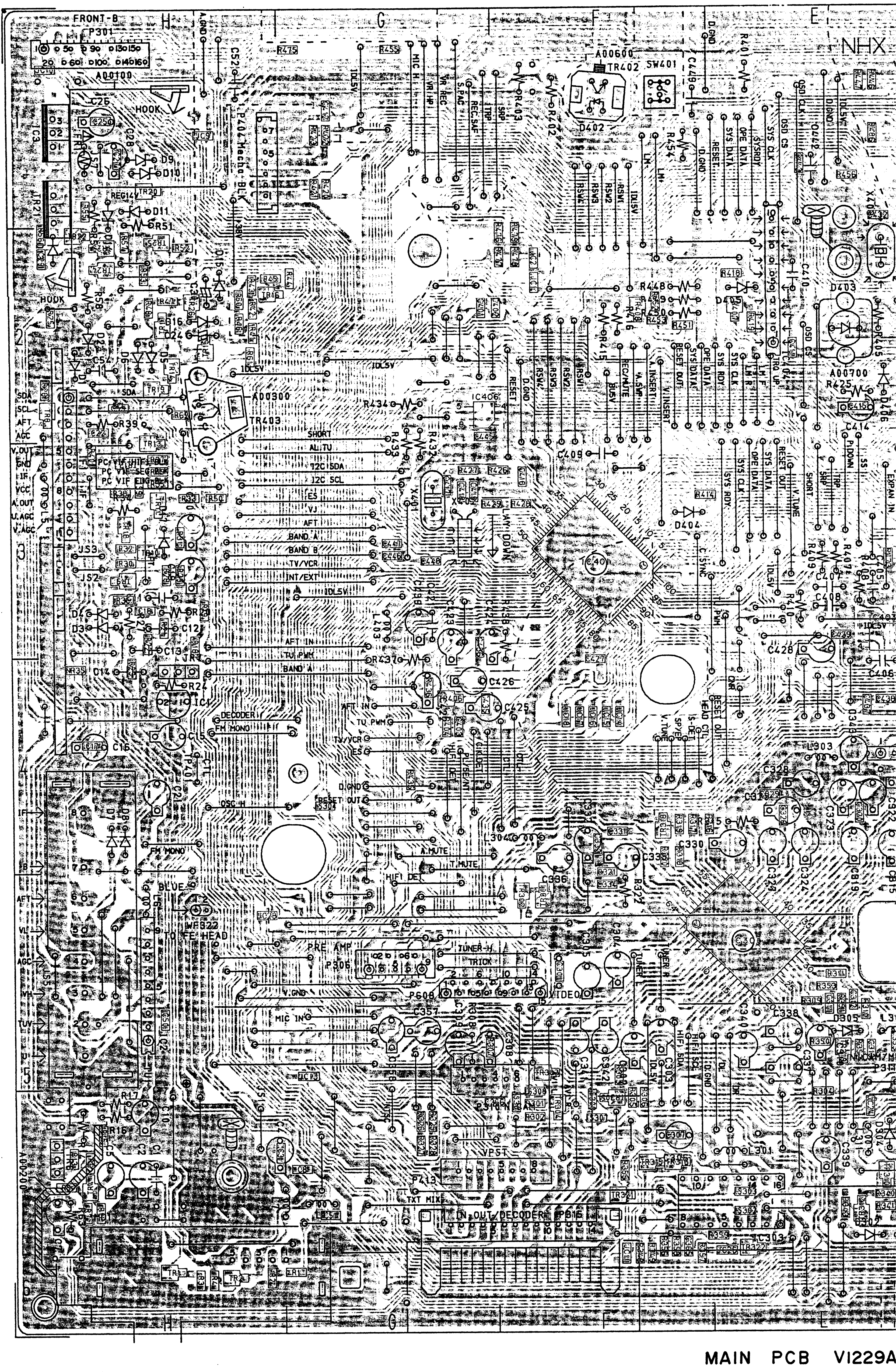
TRANSISTORs	
TR1	H6
TR2	H6
TR4	H6
TR6	H6
TR7	H4
TR8	H2
TR9	H3
TR10	H3
TR11	H3
TR12	H3
TR13	H3
TR14	H2
TR15	H2
TR16	H2
TR17	H2
TR18	H3
TR19	H2
TR20	H1
TR21	H1
TR23	H2
TR24	H2
TR25	H2
TR26	H2
TR201	A4
TR202	A5
TR203	B2
TR205	A2
TR206	B2,3
TR207	B2
TR208	A2
TR209	B3
TR301	F5
TR302	F5
TR303	F5
TR304	F6
TR305	F6
TR310	F6
TR311	D5
TR312	F6
TR313	F6
TR314	F6
TR315	F6
TR316	F6
TR318	F4
TR319	F5
TR320	D,F5
TR321	F6
TR322	F6
TR401	C1
TR402	F1
TR403	H2
TR404	B2
TR405	D2
TR406	G4
TR407	F2
TR408	F2
TR409	C2
TR410	C2
TR411	C2
TR670	C6
TR671	C6
TR672	C6
TR673	B6

CONNECTORs	
P201	A,B6
P301	H1
P306	G5
P310	F,G5
P315	F,G6
P402	A1
P403	A1
P404	H1
P405	B3
P413	F,G6
P607	D5
P608	F,G5
P609	B,C5
P612	D6
P614	C6
P616	C,D6

WIREs	
WF322	H5
WF323	D5

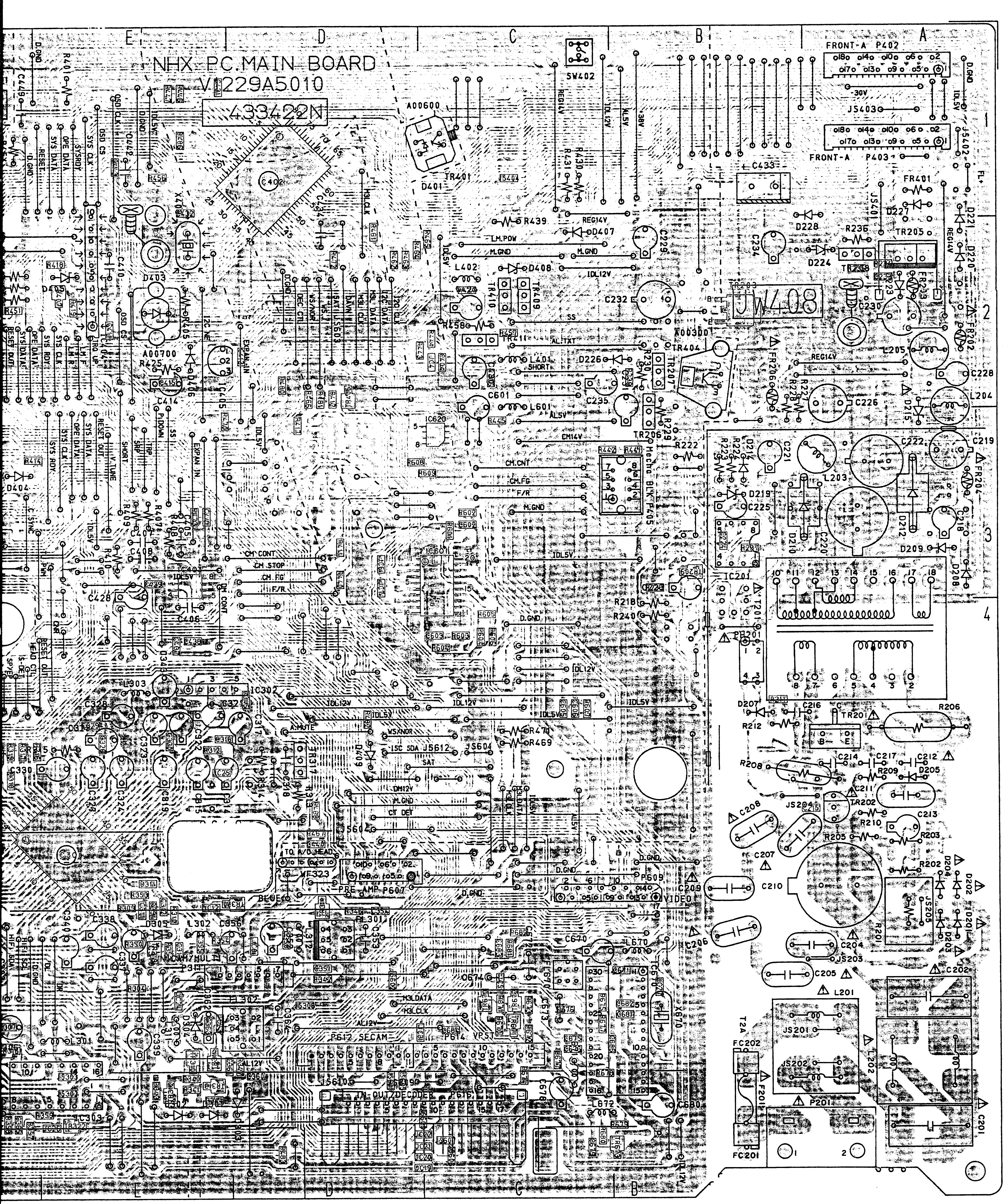
SINGLE CHIP TRANSISTOR




FRONT-B
P301
NHX
H
G
F
E
HOOK
P404 Mecha BLK
SW401
TR402
D402
IC406
TR403
A00300
A00100
A00600
A00700
A00200
DECODER
FM MONO
PRE AMP
P306
P608
P413
TXT MIX
IN OUT DECODER P616
WF322
FE HEAD
TUNER-H
TRICK
VIDEO
SHORT
AL.TU
I2C SDA
I2C SCL
AFT
BAND A
BAND B
TV/VCR
INT/EXT
IDL5V
AFT IN
TU PWM
HIFI DET
A.MUTE
T.MUTE
MIC IN
V.GND
RESET
D.GND
SYS CLK
SYS DATA
OPE DATA
SYS RDY
RESET OUT
V.INSERT
A.INSERT
REC/MUTE
OSD CS
EXPAN IN
V.TUNE
C.SYNC
PWM
MIC H
VR HP
VR REC
S.PAC
REC.SAF
TRP
SRP
LM
RSW1
RSW2
RSW3
RSW4
BUSY
A.GND

MAIN PCB VI229A

CAUTION:
As the primary side of the MAIN PCB's power section (white colored part) contains high voltage, there is risk of electric shock. be sure to use extreme caution.

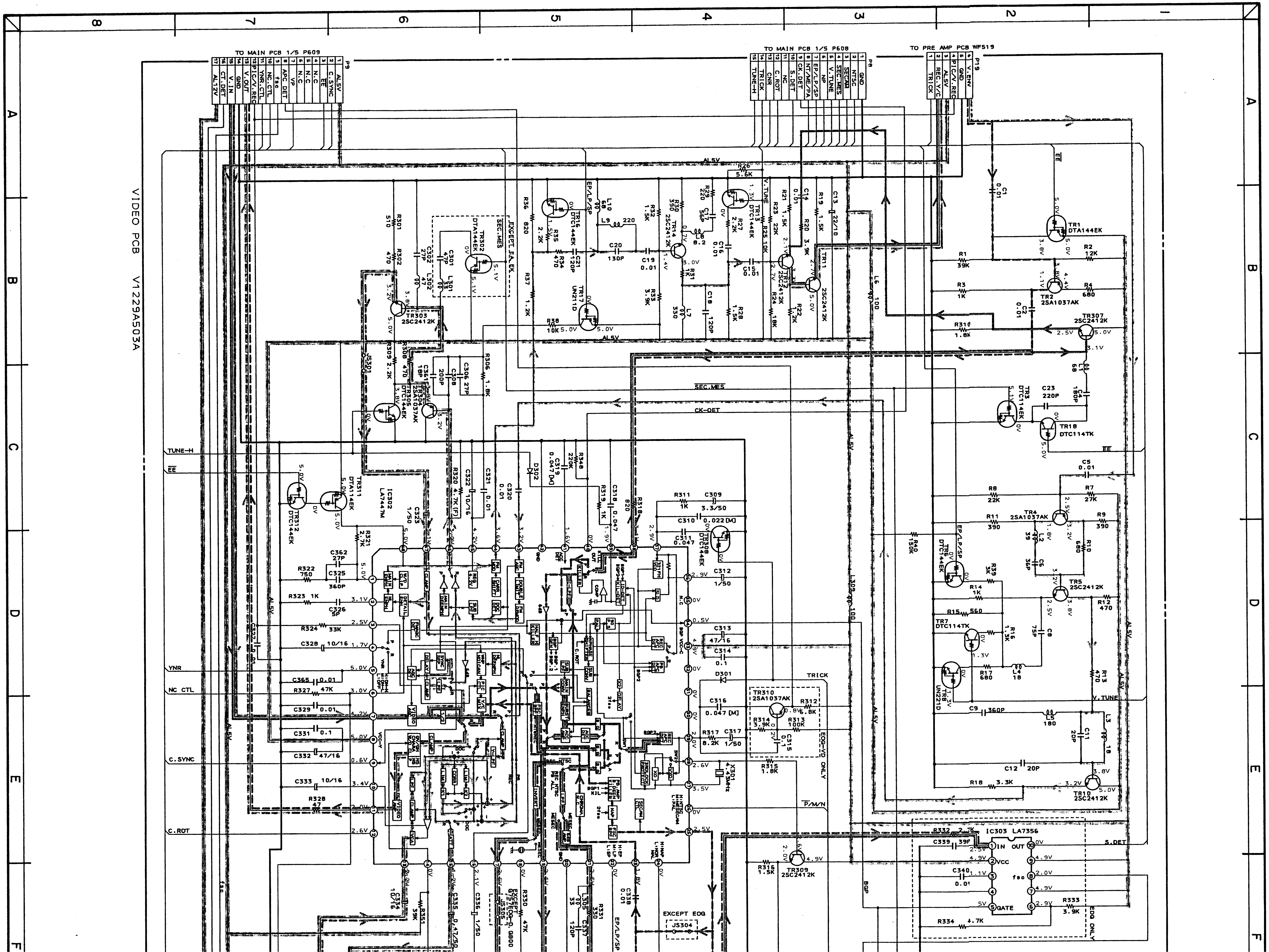

NHX PC.MAIN BOARD
V1229A5010
433422N
FRONT-A P402
FRONT-A P403
SW402
A00600
A00700
A003001
JW408
TR401
D401
C402
IC201
T201
PH201
TR201
C210
L201
L202
JS201
JS202
P201
F201
FC201
FC202
T2A
C201
C202
PRE AMP P607
IN OUT/DECODER P616
P612 SECAM
P614 VPS
Mecha BLK P405
IC601
IC620
IC302
IC303
VIDEO
P609
BE/ERASE
TO A/C HEAD
X670
A
B
C
D
E
1
2
3
4

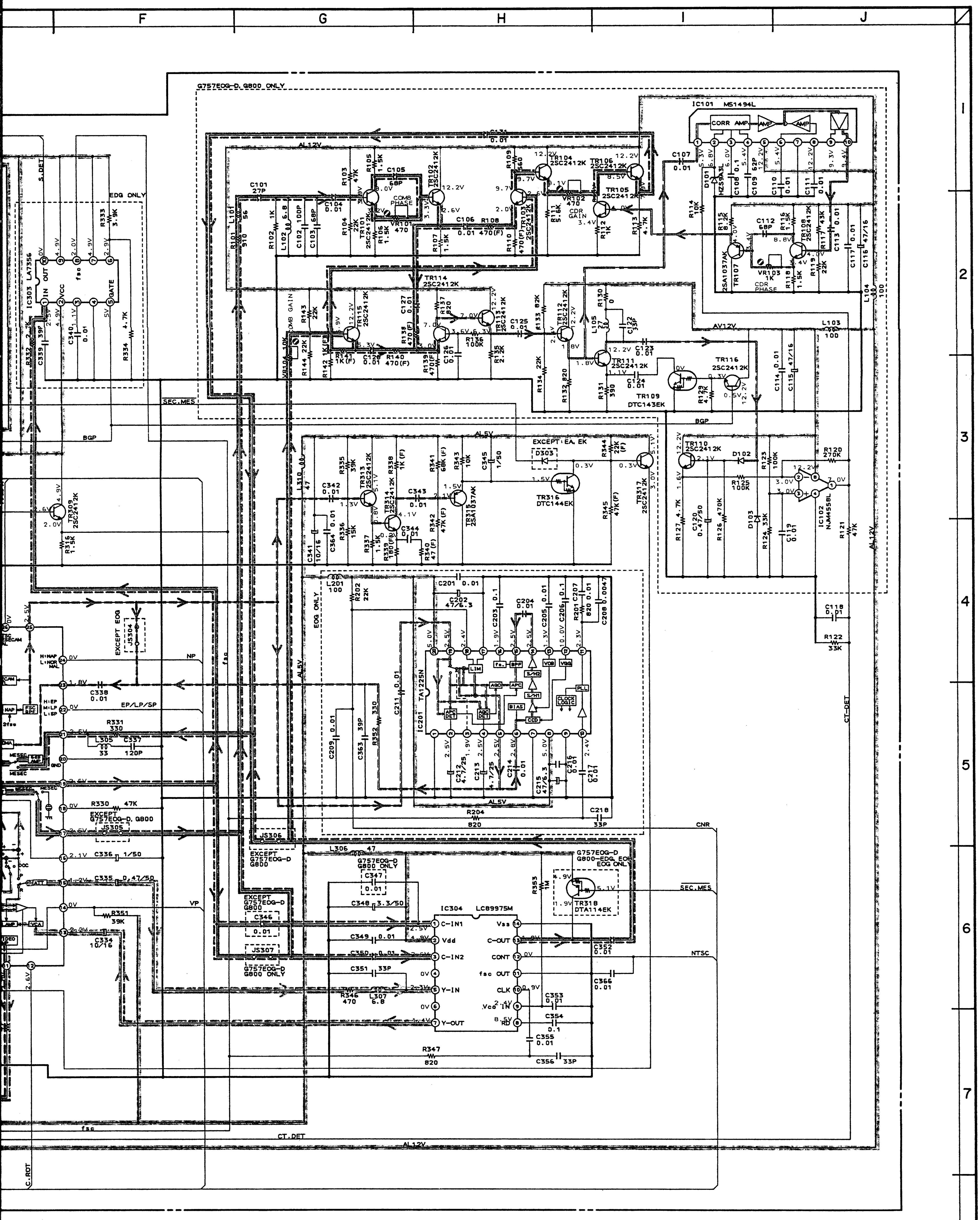
MAIN PCB VI229A5010

NOTE : PART DIFFER DEPENDING ON MODEL NUMBER.
REFER TO SCHEMATIC DIAGRAMS FOR PERTINENT
PARTS INFORMATION.

WARNING: ⚠ INDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY.
REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S
RECOMMENDED PARTS

AVERTISSEMENT: ⚠ IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ.
POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL,
NE REMPLACER QUE DES PIÈCES RECOMMANDEES PAR LE FABRICANT


VIDEO PCB V1229A503A
TO MAIN PCB 1/5 P609
P9
AL5V
C.SYNC
EE
N.C
N.C
VP
APC DET
fsc
NC CTL
YNR CTL
P/C/V.REC
V.OUT
GND
V.IN
CT.DET
AL12V
TO MAIN PCB 1/5 P608
P8
GND
NTSC
SECAM
SEC.MES
V.TUNE
NP
EP/LP/SP
NT/ME/PA
CK.DET
S.DET
NC
C.ROT
C.NR
TRICK
TUNE-H
TO PRE AMP PCB WF519
P19
V.ENV
GND
P/C/V.REC
AL5V
REC.Y/C
TRICK
IC302
LA7447M
IC303 LA7356
TR1 DTA144EK
TR2 2SA1037AK
TR3 DTC114EK
TR4 2SA1037AK
TR5 2SC2412K
TR6 DTC144EK
TR7 DTC114TK
TR8 UN2211D
TR10 2SC2412K
TR11 2SC2412K
TR12 2SC2412K
TR13 DTC144EK
TR14 2SC2412K
TR16 DTC144EK
TR17 UN2211D
TR18 DTC114TK
TR302 DTA144EK
TR303 2SC2412K
TR304 2SA1037AK
TR305 DTC144EK
TR307 2SC2412K
TR308 DTC144EK
TR309 2SC2412K
TR310 2SA1037AK
TR311 DTA114EK
TR312 DTC144EK
X301 4.43MHz
D301
D302
TUNE-H
EE
YNR
NC CTL
C.SYNC
C.ROT
SEC.MES
CK-DET
AL5V
V.TUNE
S.DET
TRICK
EOG-VD ONLY
EXCEPT EOG
JS304
EXCEPT EA, EK
P/M/N
BGP
EOG ONLY
EP/LP/SP


G757EOG-D, G800 ONLY
IC101 M51494L
CORR AMP
AMP
IC303 LA7356
IN
OUT
VCC
fsc
GATE
EOG ONLY
S.DET
SEC.MES
BGP
AL12V
AV12V
AL5V
COMB PHASE
COMB GAIN
CDR GAIN
CDR PHASE
TR101 2SC2412K
TR102 2SC2412K
TR103 2SC2412K
TR104 2SC2412K
TR105 2SC2412K
TR106 2SC2412K
TR107 2SA1037AK
TR108 2SC2412K
TR109 DTC143EK
TR110 2SC2412K
TR111 2SC2412K
TR112 2SC2412K
TR113 2SC2412K
TR114 2SC2412K
TR115 2SC2412K
TR116 2SC2412K
TR309 2SC2412K
TR313 2SC2412K
TR314 2SC2412K
TR315 2SA1037AK
TR316 DTC144EK
TR317 2SC2412K
TR318 DTA114EK
IC102 NJM4558L
IC201 TA1225N
IC304 LC89975M
EXCEPT EA, EK
EXCEPT EOG
JS304
JS305
JS306
JS307
EXCEPT G757EOG-D, G800
G757EOG-D G800 ONLY
G757EOG-D G800-EOG, EOG ONLY
EP/LP/SP
NP
VP
CNR
NTSC
CT.DET
CT-DET
fsc
C.ROT
C-IN1
Vdd
C-IN2
Y-IN
Y-OUT
Vss
C-OUT
CONT
fsc OUT
CLK
Vco IN
RD
LIM
APC
AGC
BPF
VOB
VBG
PLL
CLOCK LOGIC
BIAS
CCD
S/H1
S/H2
APC DET
AGC DET
F
G
H
I
J
1
2
3
4
5
6
7
8
B (POWER SUPPLY) LINE
PB Y SIGNAL LINE
REC Y SIGNAL LINE
PB CHROMA SIGNAL LINE
REC CHROMA SIGNAL LINE
CROSSTALK OR NON-CORELATED SIGNAL LINE

INDICATED VOLTAGES WERE
MEASURED DURING PB MODE.
(TAPE USED:
PAL COLOUR BAR TAPE)
(TAPE SPEED:SP)

NOTE:
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS
ALL CAPACITORS IN μF (P=PF)
ALL ELECTROLYTIC CAPACITORS IN μF/WV
ALL INDUCTORS IN μH
ALL DIODES ARE 1SS131T

VIDEO
SCHEMATIC DIAGRAM

NO.17-7 V122907M
A01

PRINCIPAL PARTS LOCATION

ICs

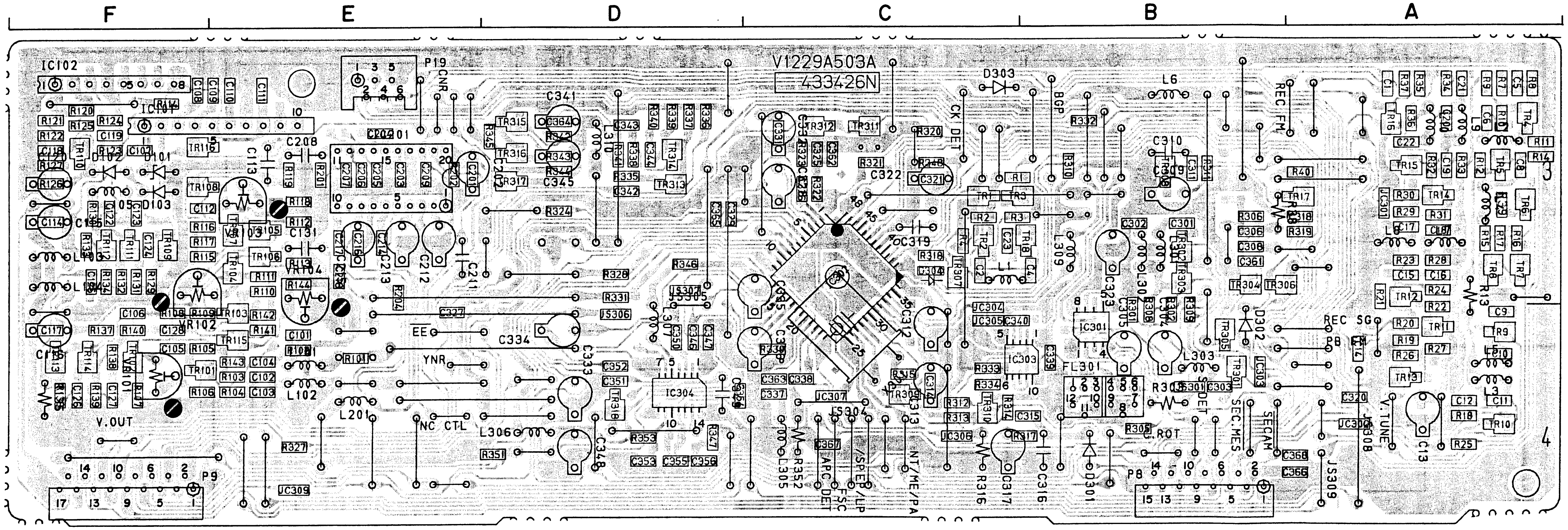
IC101	E,F3
IC102	F3
IC201	E3
IC301	B4
IC302	C3,4
IC303	B,C4
IC304	D4

TRANSISTORs

TR1	C3
TR2	C3
TR3	C3
TR4	A3
TR5	A3
TR6	A3
TR7	A3
TR8	A3
TR9	A4
TR10	A4
TR11	A4
TR12	A3
TR13	A4
TR14	A3
TR15	A3
TR16	A3
TR18	B3
TR104	E3
TR105	E3
TR106	E3
TR107	E3
TR108	E,F3
TR109	F3
TR110	F3
TR111	F3
TR112	F3
TR116	E,F3
TR301	B4
TR302	B3
TR303	B3
TR304	B3
TR306	B3
TR308	B3
TR309	C4
TR310	C4
TR311	C3
TR312	C3
TR313	D3
TR314	D3
TR315	D3
TR316	D3
TR317	D3
TR318	D4

CONNECTORs

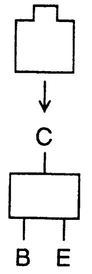
P8	B4
P9	F4
P19	E3

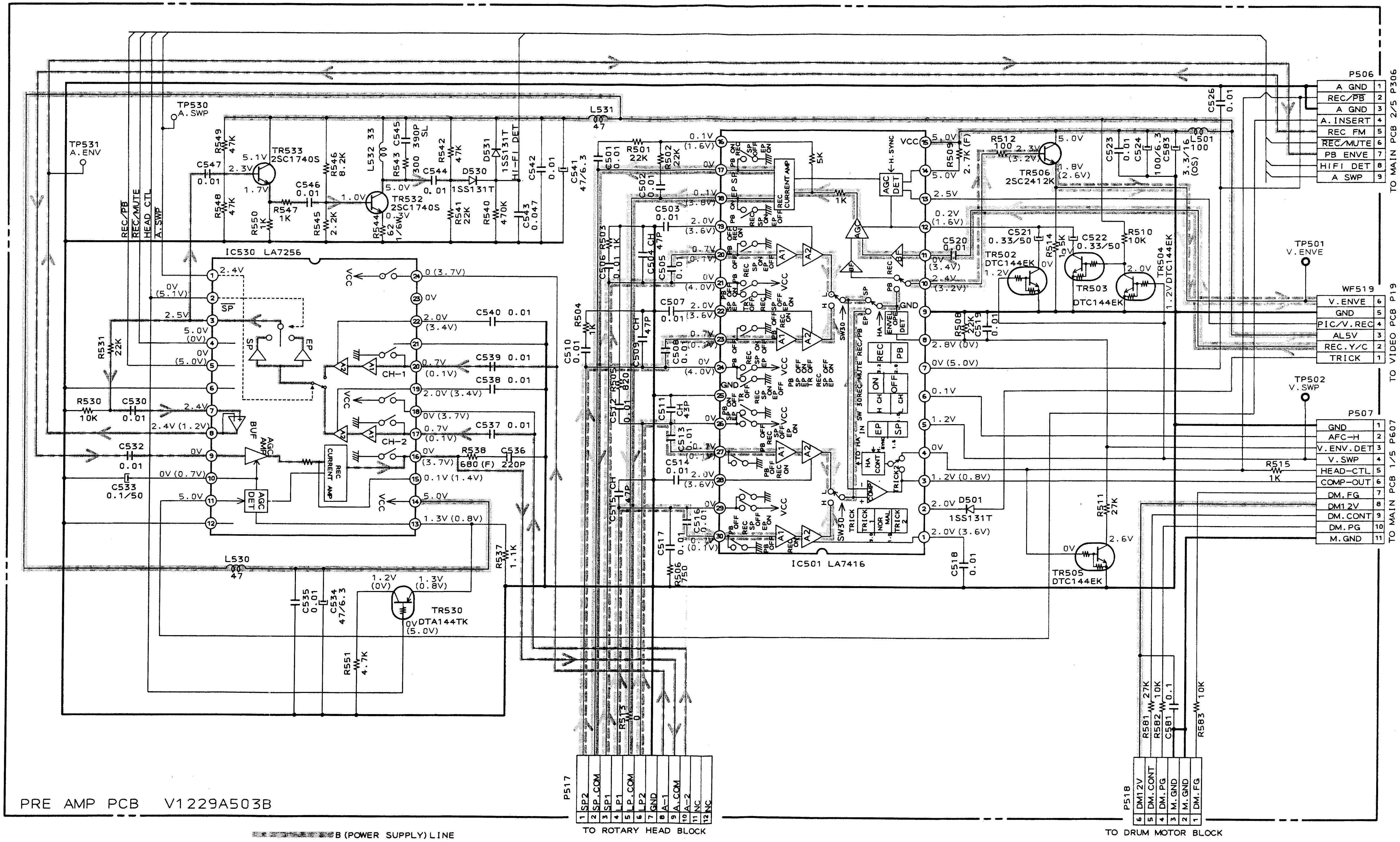

F
E
D
C
B
A
V1229A503A
433426N
IC102
IC101
IC201
IC301
IC303
IC304
P19
P9
P8
V.OUT
EE
YNR
NC CTL
REC SG
PB
REC FM
V.TUNE
SECAM
SEC.MES
ROT
CK DET
BGP
3
4

VIDEO PCB V1229A503A

NOTE : PART DIFFER DEPENDING ON MODEL NUMBER.
REFER TO SCHEMATIC DIAGRAMS FOR PERTINENT
PARTS INFORMATION.

SINGLE CHIP
TRANSISTOR




IC530 LA7256
IC501 LA7416
TR533 2SC1740S
TR532 2SC1740S
TR530 DTA144TK
TR506 2SC2412K
TR502 DTC144EK
TR503 DTC144EK
TR504 DTC144EK
TR505 DTC144EK
TP530 A.SWP
TP531 A.ENV
TP501 V.ENVE
TP502 V.SWP
L530 47
L531 47
L501 100
L532 33
REC/PB
REC/MUTE
HEAD CTL
A.SWP
P506
A GND 1
REC/PB 2
A GND 3
A.INSERT 4
REC FM 5
REC/MUTE 6
PB ENVE 7
HIFI DET 8
A SWP 9
TO MAIN PCB 2/5 P306
WF519
V.ENVE 6
GND 5
PIC/V.REC 4
AL5V 3
REC.Y/C 2
TRICK 1
TO VIDEO PCB P19
P507
GND 1
AFC-H 2
V.ENV.DET 3
V.SWP 4
HEAD-CTL 5
COMP-OUT 6
DM.FG 7
DM12V 8
DM.CONT 9
DM.PG 10
M.GND 11
TO MAIN PCB 1/5 P607
P517
1 SP2
2 SP.COM
3 SP1
4 LP1
5 LP.COM
6 LP2
7 GND
8 A-1
9 A.COM
10 A-2
11 NC
12 NC
TO ROTARY HEAD BLOCK
P518
6 DM12V
5 DM.CONT
4 DM.PG
3 M.GND
2 M.GND
1 DM.FG
TO DRUM MOTOR BLOCK
PRE AMP PCB V1229A503B
AGC AMP
AGC DET
BUF
REC CURRENT AMP
CH-1
CH-2
SP
EP
VCC
H.SYNC
AGC DET
SW30
TRICK
HI-FI DET

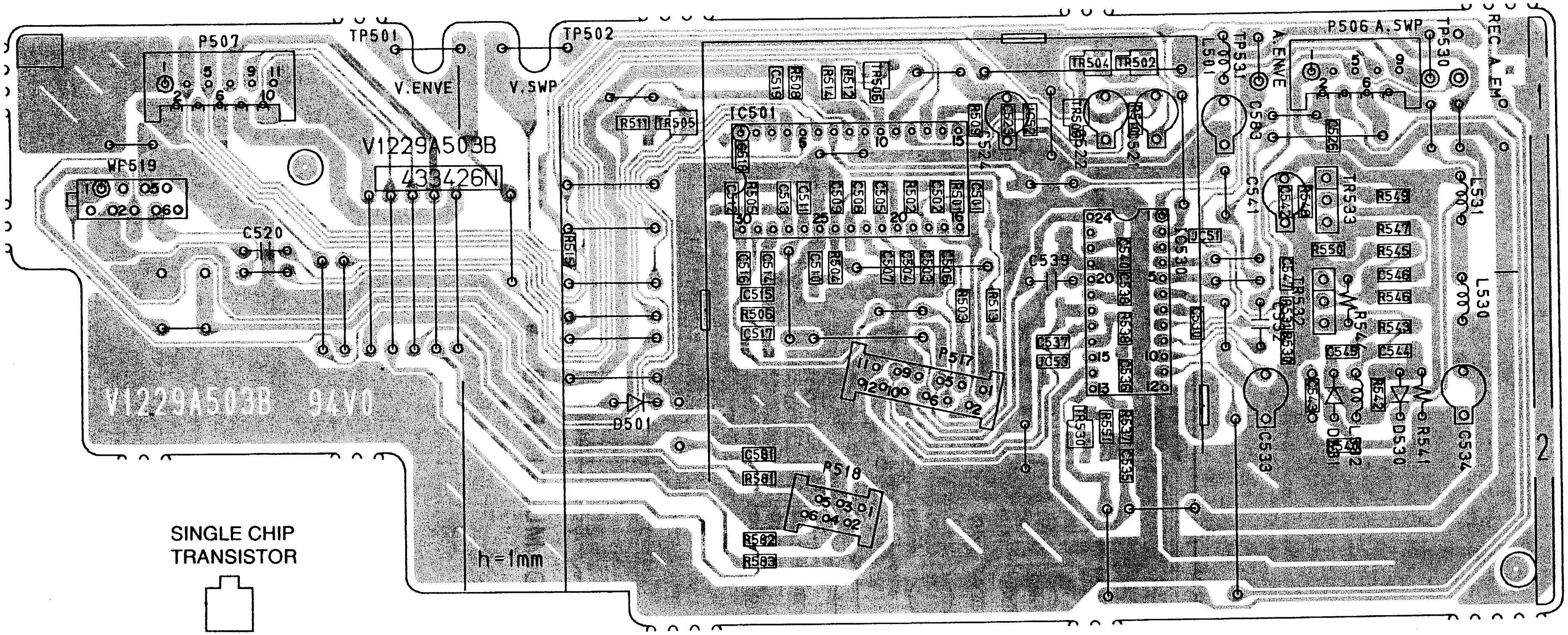
B (POWER SUPPLY) LINE
PB Y SIGNAL LINE
REC Y SIGNAL LINE
PB CHROMA SIGNAL LINE
REC CHROMA SIGNAL LINE
PB AUDIO SIGNAL LINE
REC AUDIO SIGNAL LINE

INDICATED VOLTAGES WERE
MEASURED DURING PB MODE.
( ) : REC MODE

NOTE:
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS
ALL CAPACITORS IN μF (P=PF)
ALL ELECTROLYTIC CAPACITORS IN μF/WV
ALL INDUCTORS IN μH (K)

PRE AMP
SCHEMATIC DIAGRAM

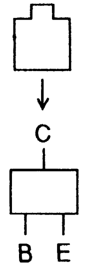
NO.17-8 V122908M A2

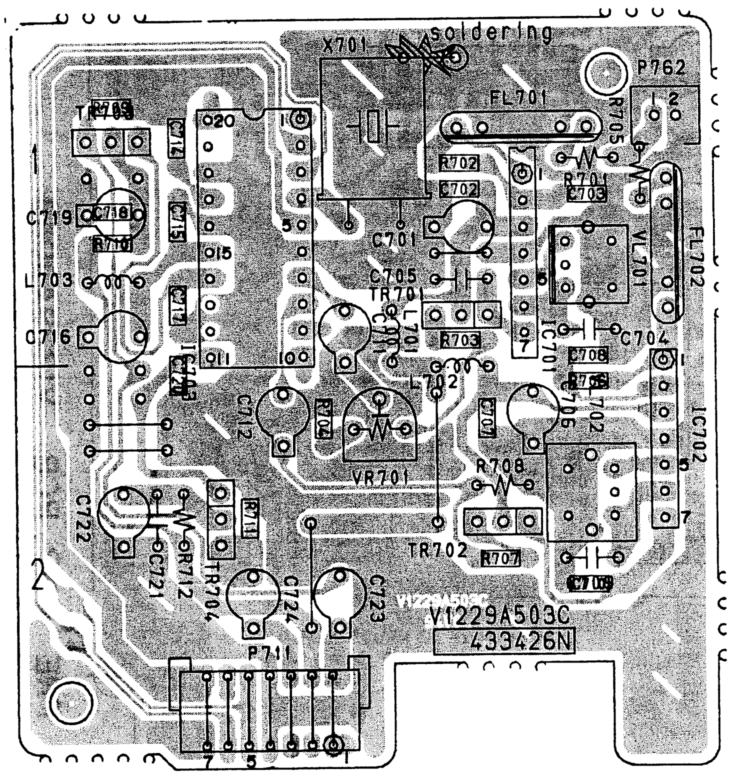

P507
TP501
TP502
V.ENVE
V.SWP
V1229A503B
433426N
WF519
C520
V1229A503B 94V0
h=1mm
D501
R511
TR505
R515
IC501
C519
R508
R514
R512
TR506
R509
C524
C523
IC52
TR503
C522
TR501
C521
TR504
TR502
L501
TP531
A.ENVE
C583
P506 A.SWP
TP530
REC A EM
C526
C541
C542
R548
TR533
R549
R547
R545
R546
R550
TR532
R544
R543
C544
C545
C543
R542
D531
L532
D530
R541
C534
C533
L531
L530
C532
C547
R531
R530
IC530
C539
C540
C538
R538
C536
R537
C535
R551
TR530
IC50
C537
C531
IC51
R513
R503
P517
P518
C581
R581
R582
R583
C501
R501
C502
R502
C505
C508
C509
C511
C513
R505
C512
C518
C503
C504
C506
C507
R504
C510
C514
C515
R506
C517
C516
2

PRE AMP PCB VI229A503B

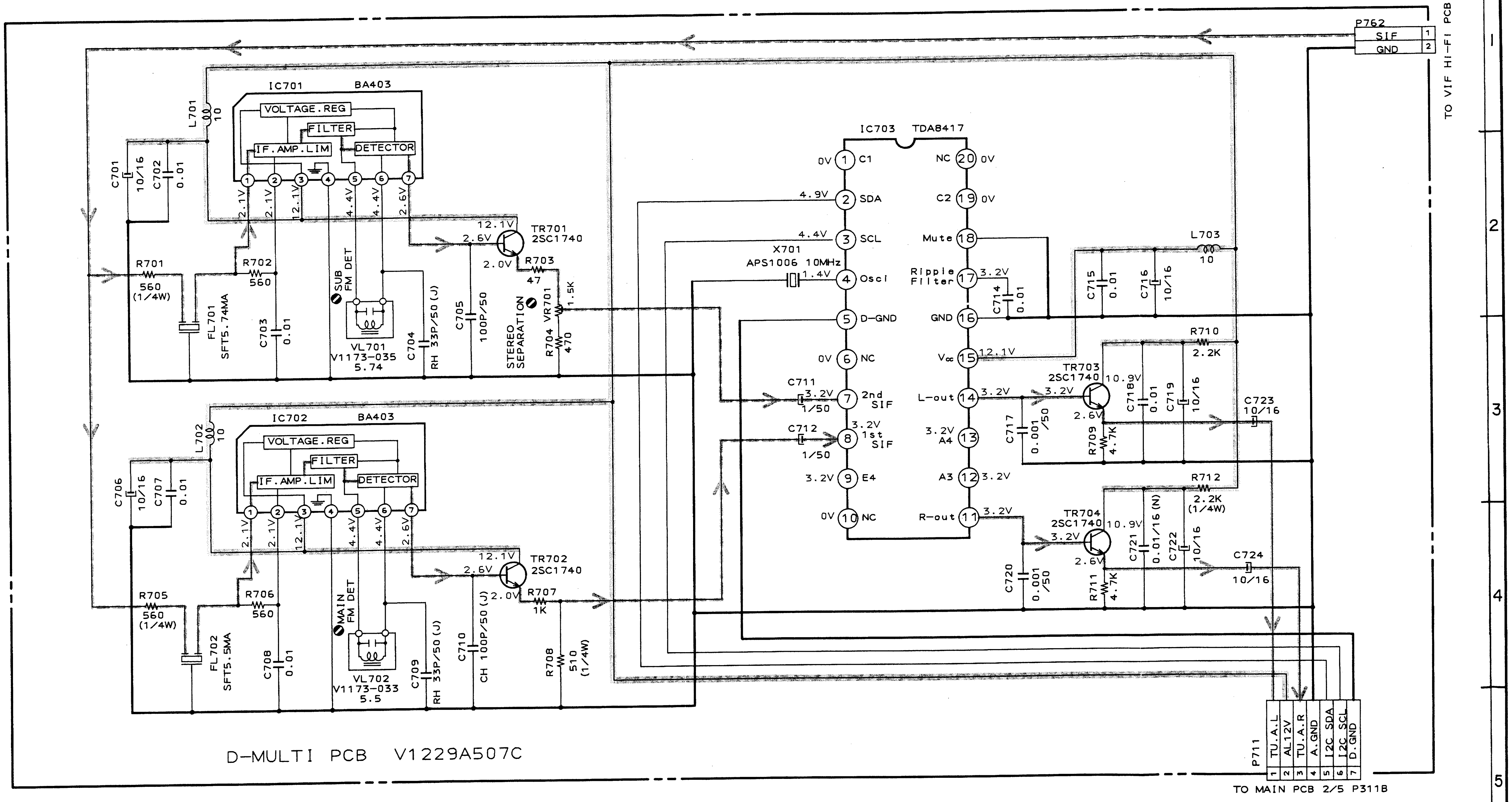
NOTE : PART DIFFER DEPENDING ON MODEL NUMBER. REFER TO SCHEMATIC DIAGRAMS FOR PERTINENT PARTS INFORMATION.

SINGLE CHIP TRANSISTOR




X701
soldering
P762
FL701
R705
R702
R701
C702
C703
C701
C705
TR701
VL701
FL702
C704
IC701
IC702
R703
L701
L702
C706
C707
C708
R706
R704
VR701
R708
TR702
R707
C709
TR703
R709
C714
C715
C717
C719
C718
R710
L703
C716
IC703
C720
C712
C722
C721
R712
R711
TR704
C724
C723
P711
V1229A503C
433426N

D-MULTI PCB V1229A503C

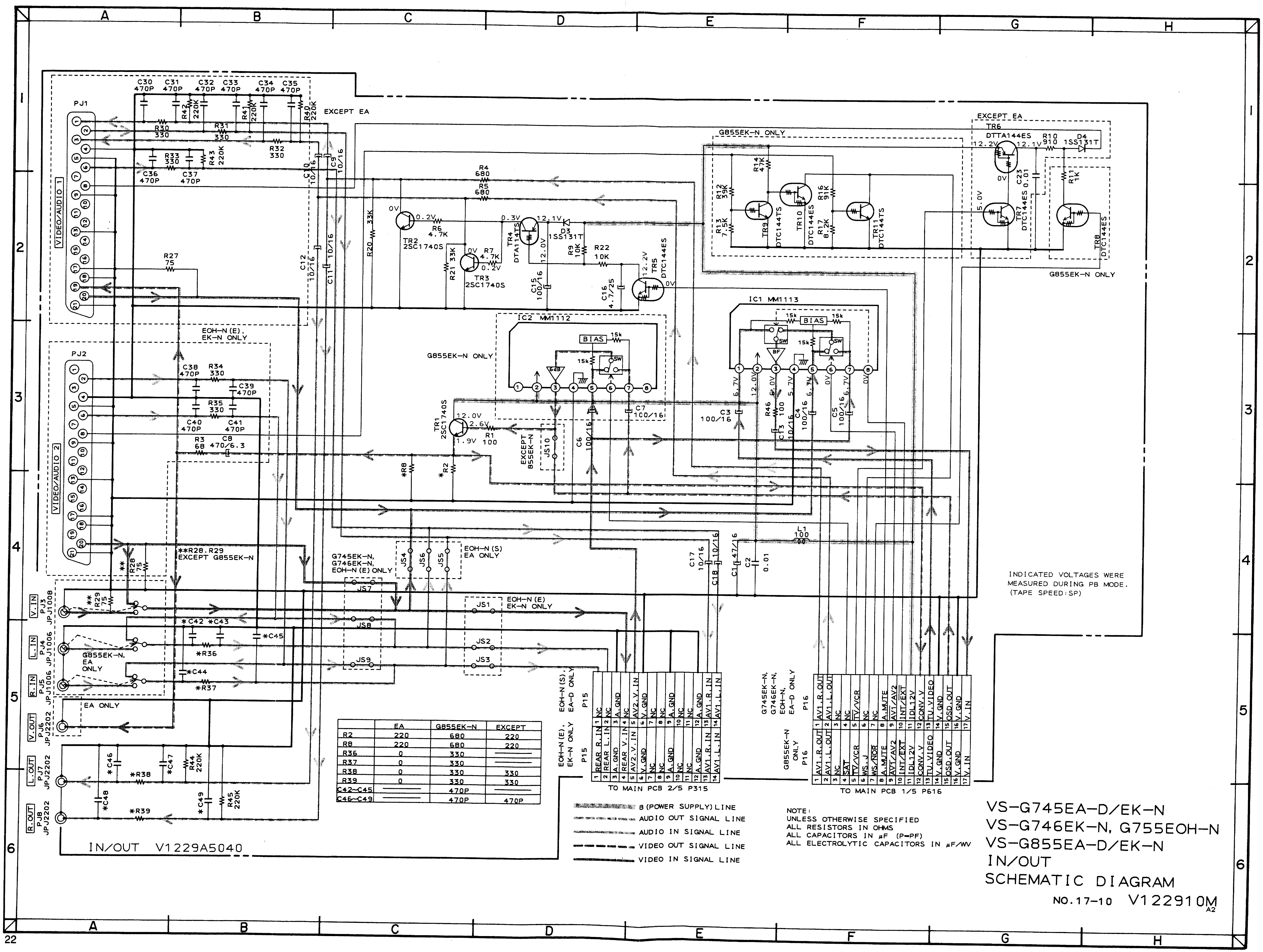

TO VIF HI-FI PCB P2
P762
SIF
GND
IC701 BA403
VOLTAGE.REG
FILTER
IF.AMP.LIM
DETECTOR
L701 10
C701 10/16
C702 0.01
R701 560 (1/4W)
R702 560
FL701 SFT5.74MA
C703 0.01
SUB FM DET
VL701 V1173-035 5.74
C704 RH 33P/50 (J)
C705 100P/50
TR701 2SC1740
R703 47
STEREO SEPARATION
VR701 1.5K
R704 470
IC702 BA403
L702 10
C706 10/16
C707 0.01
R705 560 (1/4W)
R706 560
FL702 SFT5.5MA
C708 0.01
MAIN FM DET
VL702 V1173-033 5.5
C709 RH 33P/50 (J)
C710 CH 100P/50 (J)
TR702 2SC1740
R707 1K
R708 510 (1/4W)
IC703 TDA8417
C1
SDA
SCL
Oscl
D-GND
NC
2nd SIF
1st SIF
E4
NC
NC
C2
Mute
Ripple Filter
GND
Vcc
L-out
A4
A3
R-out
X701 APS1006 10MHz
C711 1/50
C712 1/50
C714 0.01
C715 0.01
C716 10/16
L703 10
R710 2.2K
TR703 2SC1740
C717 0.001/50
C718 0.01
C719 10/16
R709 4.7K
C723 10/16
R712 2.2K (1/4W)
TR704 2SC1740
C720 0.001/50
C721 0.01/16 (N)
C722 10/16
R711 4.7K
C724 10/16
P711
TU.A.L
AL12V
TU.A.R
A.GND
I2C SDA
I2C SCL
D.GND
TO MAIN PCB 2/5 P311B
D-MULTI PCB V1229A507C

NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/10W (J)
ALL CAPACITORS IN μF 25WV (K)
ALL ELECTROLYTIC CAPACITORS IN μF/WV (M)
ALL INDUCTORS IN μH (J)

▨ B (POWER SUPPLY) LINE
– – – SIF SIGNAL LINE
—— AUDIO OUT SIGNAL LINE

INDICATED VOLTAGES WERE MEASURED DURING E-E (STOP) MODE.
(NO SIGNAL WAS BEING INPUT)

VS-G740EOH-D, G745EA-D
VS-G745EOH-D, G757EOG-D
VS-G855EA-D/EOH-D
VS-G858EOG-VD
D-MULTI
SCHEMATIC DIAGRAM
NO.17-9 V122409M A2


A
B
C
D
E
F
G
H
1
2
3
4
5
6
PJ1
VIDEO/AUDIO 1
PJ2
VIDEO/AUDIO 2
C30 470P
C31 470P
C32 470P
C33 470P
C34 470P
C35 470P
C36 470P
C37 470P
R30 330
R31 330
R32 330
R33 330
R40 220K
R41 220K
R42 220K
R43 220K
EXCEPT EA
C9 10/16
C10 10/16
C11 10/16
C12 10/16
R27 75
R4 680
R5 680
R6 4.7K
R7 4.7K
R20 33K
R21 33K
TR2 2SC1740S
TR3 2SC1740S
TR4 DTA114TS
TR5 DTC144ES
D3 1SS131T
R9 10K
R22 10K
C15 100/16
C16 4.7/25
0V
0.2V
0.3V
12.1V
12.0V
12.2V
EOH-N (E), EK-N ONLY
C38 470P
R34 330
C39 470P
R35 330
C40 470P
C41 470P
R3 68
C8 470/6.3
G855EK-N ONLY
IC2 MM1112
BIAS
15k
SW
6dB
C7 100/16
TR1 2SC1740S
R1 100
2.6V
1.9V
EXCEPT 855EK-N
JS10
C6 100/16
*R8
*R2
G855EK-N ONLY
R12 39K
R13 7.5K
R14 4.7K
R16 91K
R17 8.2K
TR9 DTC144TS
TR10 DTC144ES
TR11 DTC144TS
EXCEPT EA
TR6 DTTA144ES
R10 910
D4 1SS131T
C23 0.01
R11 1K
TR7 DTC144ES
TR8 DTC144ES
5.0V
G855EK-N ONLY
IC1 MM1113
8F
C3 100/16
C4 100/16
C5 100/16
C13 100
R46
6.7V
12.0V
5.7V
L1 100
C1 47/16
C2 0.01
C17 10/16
C18 10/16
**R28.R29 EXCEPT G855EK-N
**R28 75
**R29 75
G745EK-N, G746EK-N, EOH-N (E) ONLY
JS4
JS5
JS6
EOH-N (S) EA ONLY
JS7
JS1
EOH-N (E) EK-N ONLY
JS8
JS2
JS9
JS3
V.IN PJ3 JPJ1008
L.IN PJ4 JPJ1006
R.IN PJ5 JPJ1006
V.OUT PJ6 JPJ2202
L.OUT PJ7 JPJ2202
R.OUT PJ8 JPJ2202
*C42
*C43
*C44
*C45
*R36
*R37
G855EK-N, EA ONLY
EA ONLY
*C46
*C47
*C48
*C49
*R38
*R39
R44 220K
R45 220K
IN/OUT V1229A5040
INDICATED VOLTAGES WERE MEASURED DURING PB MODE. (TAPE SPEED:SP)
EOH-N (S), EA-D ONLY P15
EOH-N (E), EK-N ONLY P15
1 REAR R.IN
2 REAR L.IN
3 A.GND
4 REAR V.IN
5 AV2.V.IN
6 V.GND
7 NC
8 NC
9 A.GND
10 NC
11 NC
12 A.GND
13 AV1.R.IN
14 AV1.L.IN
1 NC
2 NC
3 A.GND
4 NC
5 AV2.V.IN
6 V.GND
7 NC
8 NC
9 A.GND
10 NC
11 NC
12 A.GND
13 AV1.R.IN
14 AV1.L.IN
TO MAIN PCB 2/5 P315
G745EK-N, G746EK-N, EOH-N, EA-D ONLY P16
G855EK-N ONLY P16
1 AV1.R.OUT
2 AV1.L.OUT
3 NC
4 NC
5 TV/VCR
6 NC
7 NC
8 A.MUTE
9 AVT/AV2
10 INT/EXT
11 IDL12V
12 CONV.V
13 TU.VIDEO
14 V.GND
15 OSD.OUT
16 V.GND
17 V.IN
1 AV1.R.OUT
2 AV1.L.OUT
3 NC
4 SAT
5 TV/VCR
6 WS.J
7 WS/NOR
8 A.MUTE
9 AVT/AV2
10 INT/EXT
11 IDL12V
12 CONV.V
13 TU.VIDEO
14 V.GND
15 OSD.OUT
16 V.GND
17 V.IN
TO MAIN PCB 1/5 P616

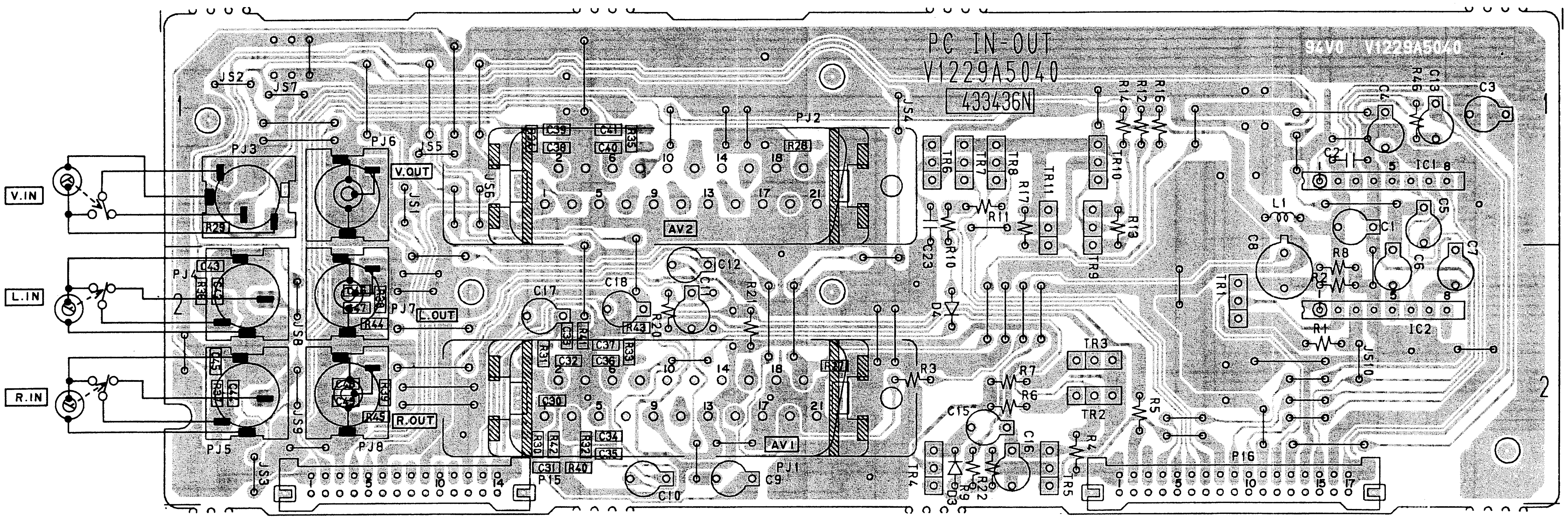
	EA	G855EK-N	EXCEPT
R2	220	680	220
R8	220	680	220
R36	0	330	———
R37	0	330	———
R38	0	330	330
R39	0	330	330
C42~C45	———	470P	———
C46~C49	———	470P	470P

▨ B (POWER SUPPLY) LINE
AUDIO OUT SIGNAL LINE
AUDIO IN SIGNAL LINE
VIDEO OUT SIGNAL LINE
VIDEO IN SIGNAL LINE

NOTE:
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS
ALL CAPACITORS IN μF (P=PF)
ALL ELECTROLYTIC CAPACITORS IN μF/WV

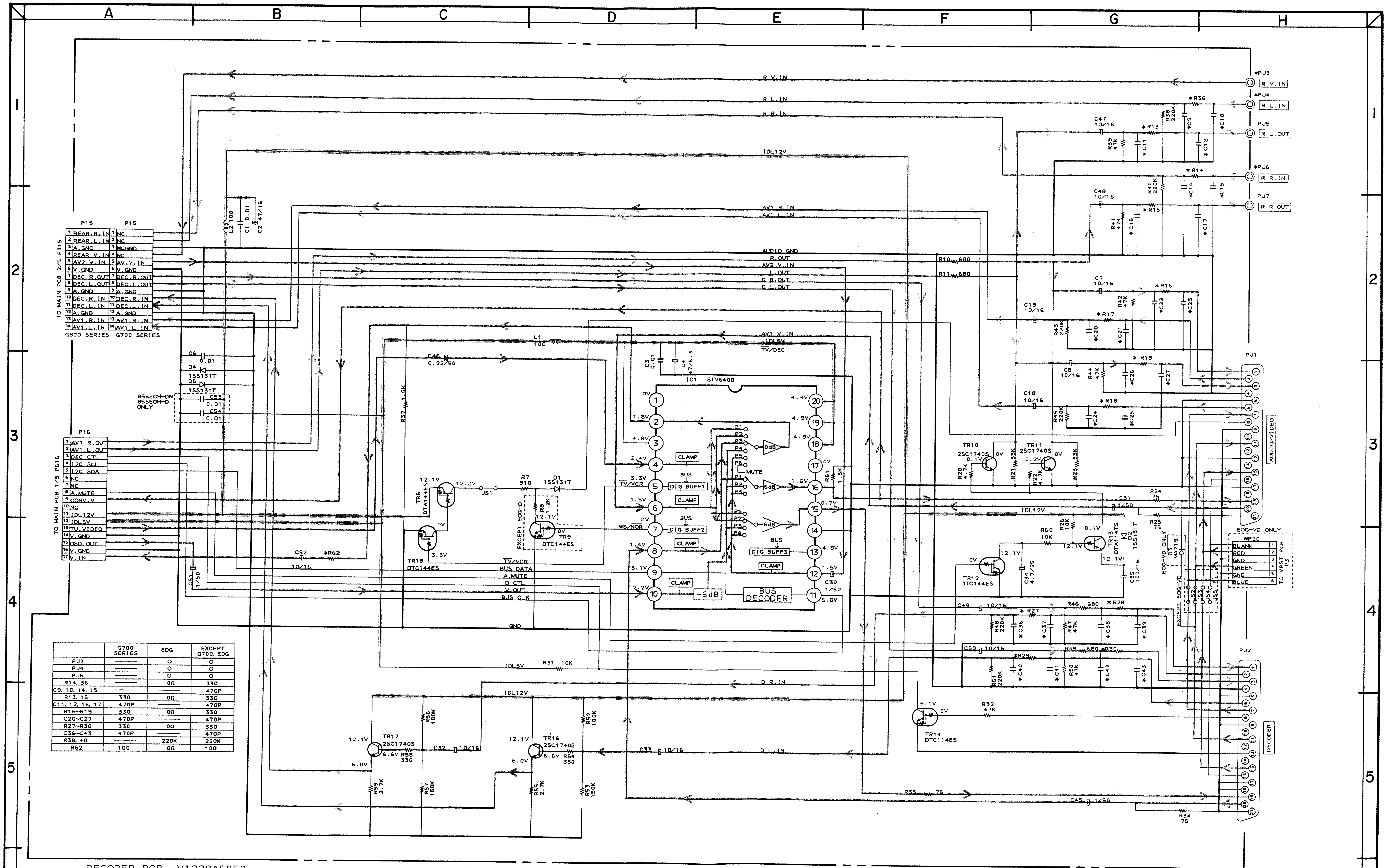
VS-G745EA-D/EK-N
VS-G746EK-N, G755EOH-N
VS-G855EA-D/EK-N
IN/OUT
SCHEMATIC DIAGRAM

NO.17-10 V122910M A2


PC IN-OUT
V1229A5040
433436N
94V0 V1229A5040
V.IN
L.IN
R.IN
V.OUT
L.OUT
R.OUT
PJ1
PJ2
PJ3
PJ4
PJ5
PJ6
PJ7
PJ8
P15
P16
AV1
AV2
IC1
IC2
TR1
TR2
TR3
TR4
TR5
TR6
TR7
TR8
TR9
TR10
TR11
L1
D3
D4
JS1
JS2
JS3
JS4
JS5
JS6
JS7
JS8
JS9
JS10
1
2

IN/OUT PCB V1229A5040

NOTE : PART DIFFER DEPENDING ON MODEL NUMBER.
REFER TO SCHEMATIC DIAGRAMS FOR PERTINENT
PARTS INFORMATION.


A
B
C
D
E
F
G
H
1
2
3
4
5
6
P15
1 REAR.R.IN
2 REAR.L.IN
3 A.GND
4 REAR V.IN
5 AV2.V.IN
6 V.GND
7 DEC.R.OUT
8 DEC.L.OUT
9 A.GND
10 DEC.R.IN
11 DEC.L.IN
12 A.GND
13 AV1.R.IN
14 AV1.L.IN
G800 SERIES
P15
1 NC
2 NC
3 MCGND
4 NC
5 AV.V.IN
6 V.GND
7 DEC.R.OUT
8 DEC.L.OUT
9 A.GND
10 DEC.R.IN
11 DEC.L.IN
12 A.GND
13 AV1.R.IN
14 AV1.L.IN
G700 SERIES
TO MAIN PCB 2/5 P315
P16
1 AV1.R.OUT
2 AV1.L.OUT
3 DEC CTL
4 I2C SCL
5 I2C SDA
6 NC
7 NC
8 A.MUTE
9 CONV.V
10 NC
11 IDL12V
12 IDL5V
13 TU.VIDEO
14 V.GND
15 OSD.OUT
16 V.GND
17 V.IN
TO MAIN PCB 1/5 P616
856EOH-DN
855EOH-D
ONLY
R V.IN
R L.IN
R R.IN
IDL12V
AV1 R.IN
AV1 L.IN
AUDIO GND
R.OUT
AV2 V.IN
L.OUT
D R.OUT
D L.OUT
AV1 V.IN
IDL5V
TV/DEC
IC1 STV6400
CLAMP
BUS
DIG BUFF1
DIG BUFF2
DIG BUFF3
MUTE
6dB
-6dB
BUS DECODER
TV/VCR
WS/NOR
BUS DATA
A.MUTE
D CTL
V.OUT
BUS CLK
GND
D R.IN
D L.IN
TR6 DTA144ES
TR18 DTC144ES
TR9 DTC144ES
EXCEPT EOG-D
TR10 2SC1740S
TR11 2SC1740S
TR12 DTC114ES
TR13 DTA114TS
TR14 DTC114ES
TR16 2SC1740S
TR17 2SC1740S
*PJ3
R V.IN
*PJ4
R L.IN
PJ5
R L.OUT
*PJ6
R R.IN
PJ7
R R.OUT
PJ1
AUDIO/VIDEO
PJ2
DECODER
EOG-VD ONLY
WP20
BLANK 1
RED 2
GND 3
GREEN 4
GND 5
BLUE 6
TO VPST PCB P3
EXCEPT EOG-VD
EOG-VD ONLY

	G700 SERIES	EDG	EXCEPT G700, EDG
PJ3	———	○	○
PJ4	———	○	○
PJ6	———	○	○
R14, 36	———	0Ω	330
C9, 10, 14, 15	———	———	470P
R13, 15	330	0Ω	330
C11, 12, 16, 17	470P	———	470P
R16~R19	330	0Ω	330
C20~C27	470P	———	470P
R27~R30	330	0Ω	330
C36~C43	470P	———	470P
R38, 40	———	220K	220K
R62	100	0Ω	100

DECODER PCB V1229A5050

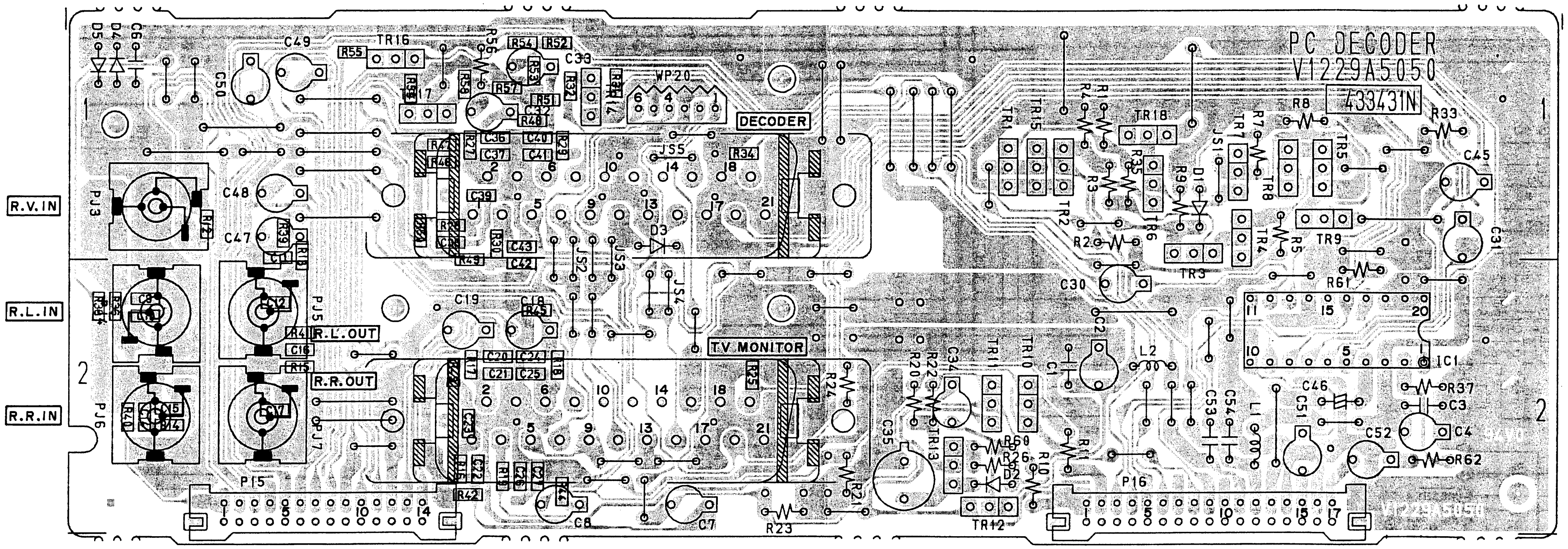
▨	B (POWER SUPPLY) LINE
- - -	AUDIO OUT SIGNAL LINE
▨	AUDIO IN SIGNAL LINE
- - -	VIDEO OUT SIGNAL LINE
———	VIDEO IN SIGNAL LINE
— - —	R.G.B SIGNAL LINE

INDICATED VOLTAGES WERE MEASURED
DURING E-E (STOP) MODE.

NOTE:
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS
ALL CAPACITORS IN µF (P=PF)
ALL ELECTROLYTIC CAPACITORS IN µF/WV
ALL INDUCTORS IN µH

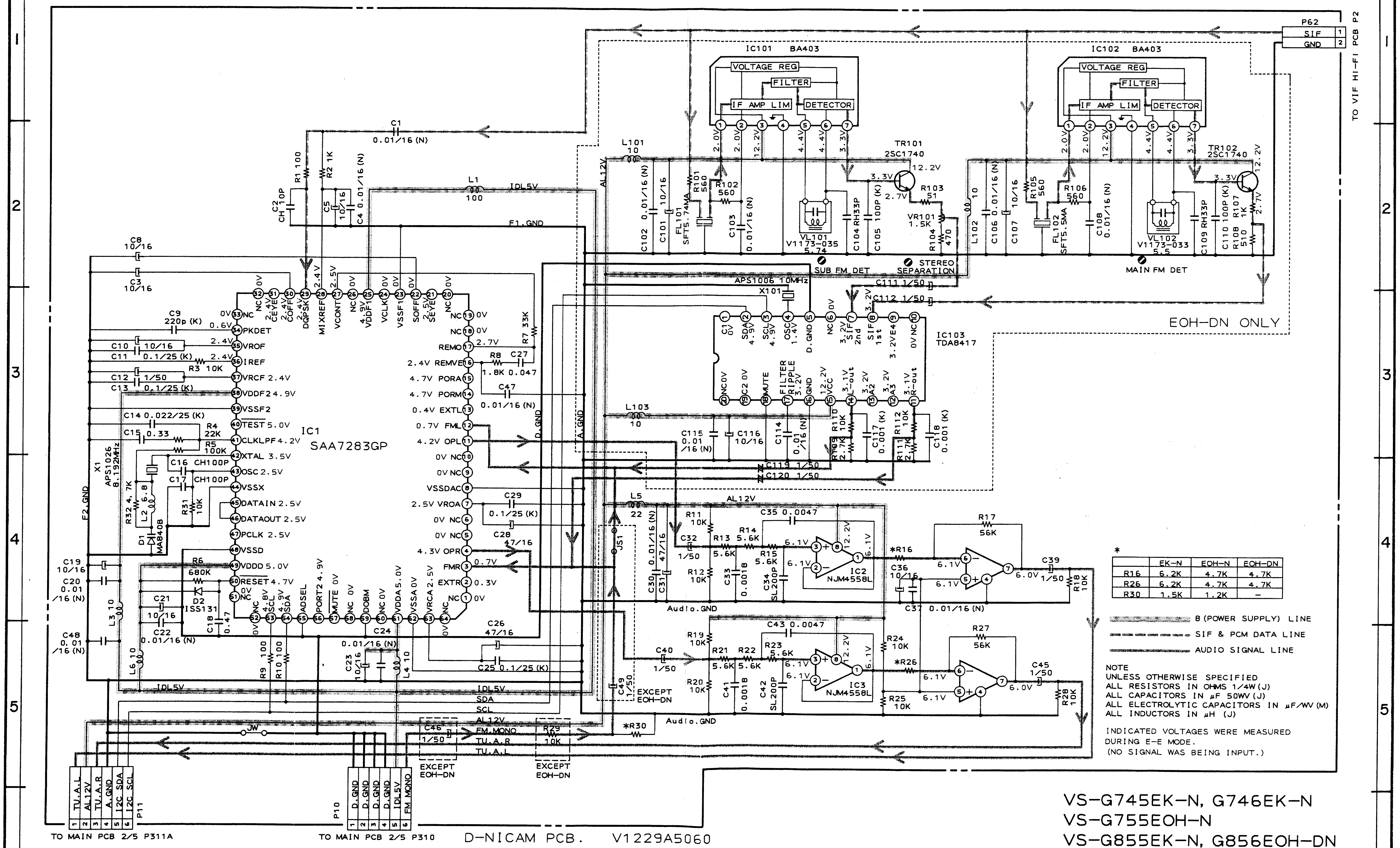
VS-G740EOH-D, G745EOH-D
VS-G757EOG-D
VS-G855EDG/EOH-D
VS-G856EOH-DN, G858EOG-VD
DECODER
SCHEMATIC DIAGRAM

NO.17-11 V122911M A1


PC DECODER
V1229A5050
43431N
R.V.IN
R.L.IN
R.R.IN
R.L.OUT
R.R.OUT
DECODER
T.V.MONITOR
PJ3
PJ5
PJ6
PJ7
P15
P16
WP20
IC1
TR16
TR17
TR18
TR9
TR3
TR12
C49
C50
C48
C47
C19
C18
C45
C31
C30
C35
C7
C8
L1
L2
D3
R23
R33
R61
R62

DECODER PCB V1229A5050

NOTE : PART DIFFER DEPENDING ON MODEL NUMBER.
REFER TO SCHEMATIC DIAGRAMS FOR PERTINENT
PARTS INFORMATION.


IC1 SAA7283GP
IC101 BA403
IC102 BA403
VOLTAGE REG
FILTER
IF AMP LIM
DETECTOR
TR101 2SC1740
TR102 2SC1740
IC103 TDA8417
IC2 NJM4558L
IC3 NJM4558L
X101 APS1006 10MHz
X1 APS1026 8.192MHz
VL101 V1173-035
VL102 V1173-033
FL101 SFT5.74MA
FL102 SFT5.5MA
SUB FM DET
STEREO SEPARATION
MAIN FM DET
EOH-DN ONLY
EXCEPT EOH-DN
P62 SIF GND
TO VIF HI-FI PCB P2
IDL5V
F1.GND
F2.GND
AL12V
Audio.GND
D.GND
A.GND
SDA
SCL
FM.MONO
TU.A.R
TU.A.L
JW
JS1
P11
TO MAIN PCB 2/5 P311A
P10
TO MAIN PCB 2/5 P310
D-NICAM PCB.   V1229A5060

	EK-N	EOH-N	EOH-DN
R16	6.2K	4.7K	4.7K
R26	6.2K	4.7K	4.7K
R30	1.5K	1.2K	–

▨ B (POWER SUPPLY) LINE

▨ SIF & PCM DATA LINE

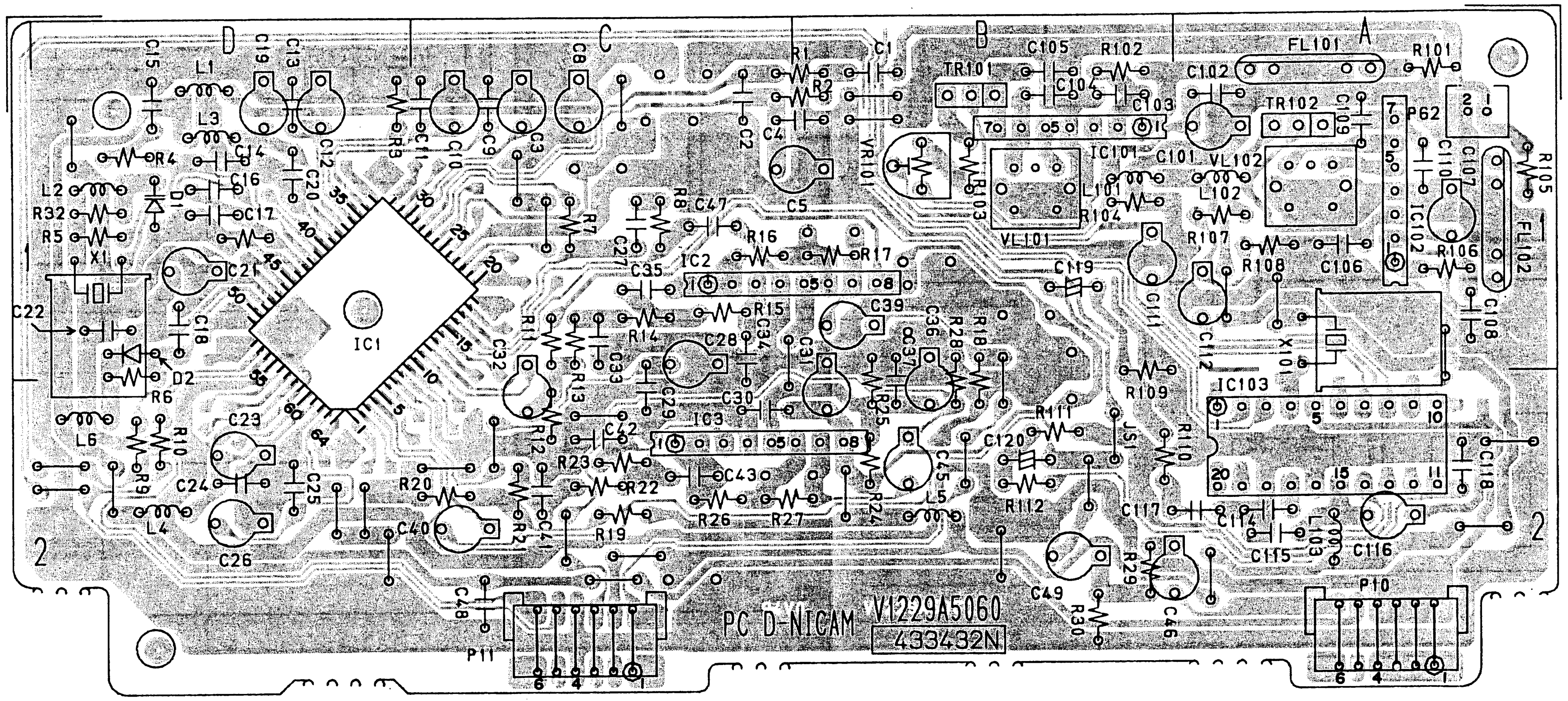
▨ AUDIO SIGNAL LINE

NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/4W (J)
ALL CAPACITORS IN μF 50WV (J)
ALL ELECTROLYTIC CAPACITORS IN μF/WV (M)
ALL INDUCTORS IN μH (J)

INDICATED VOLTAGES WERE MEASURED
DURING E-E MODE.
(NO SIGNAL WAS BEING INPUT.)

VS-G745EK-N, G746EK-N
VS-G755EOH-N
VS-G855EK-N, G856EOH-DN
D-NICAM
SCHEMATIC DIAGRAM

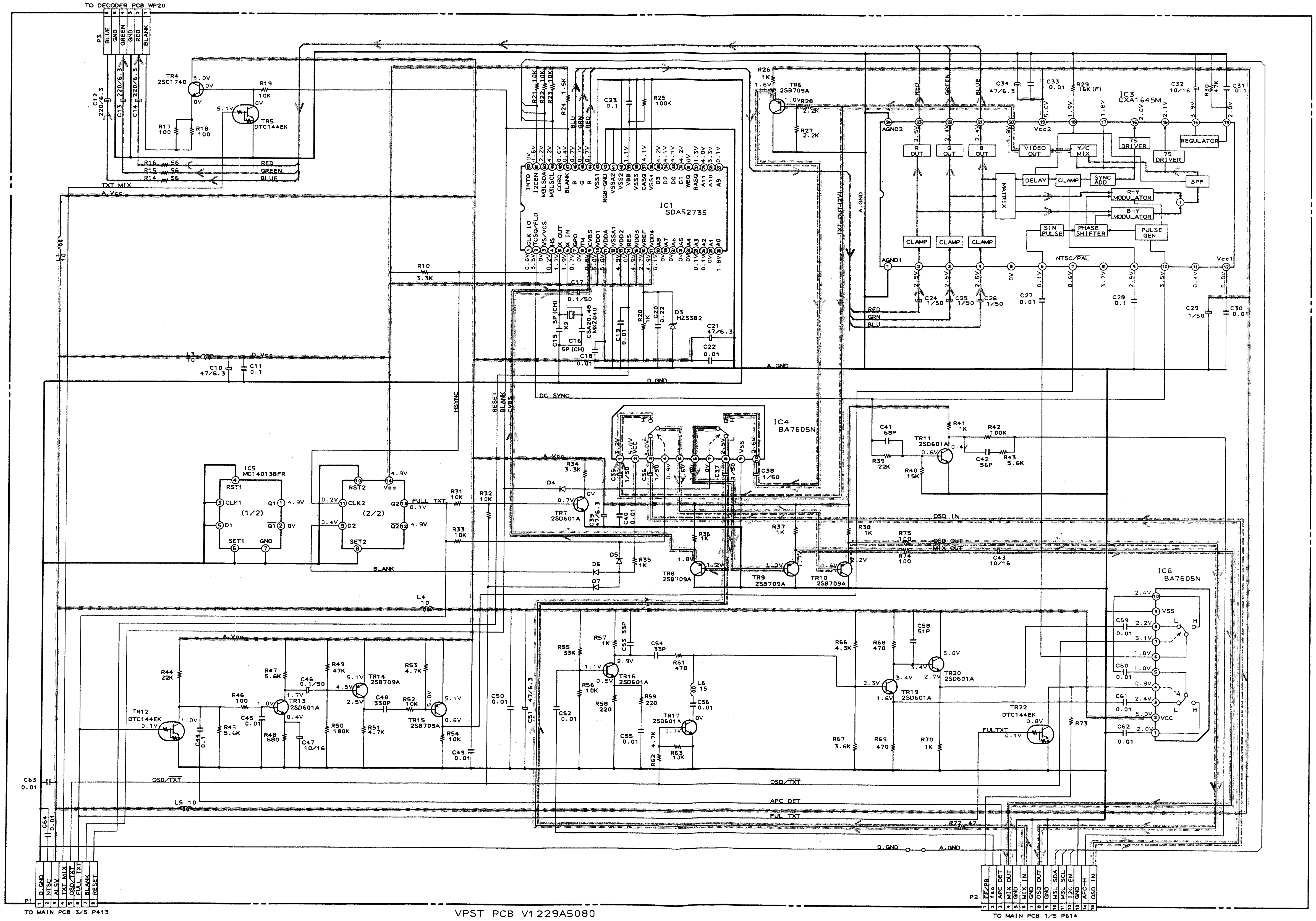
NO.17-12   V122912M A2



IC1
IC2
IC3
IC101
IC102
IC103
PC D-NICAM V1229A5060
433432N
P10
P11
P62
FL101
FL102
TR101
TR102
VL101
VL102
VR101
X1
X101
A
B
C
D
1
2

D-NICAM PCB V1229A5060

NOTE : PART DIFFER DEPENDING ON MODEL NUMBER.
REFER TO SCHEMATIC DIAGRAMS FOR PERTINENT
PARTS INFORMATION.



TO DECODER PCB WP20
P3
BLUE
GND
GREEN
GND
RED
BLANK
TR4 2SC1740
TR5 DTC144EK
TR6 2SB709A
IC1 SDA5273S
IC3 CXA1645M
IC4 BA7605N
IC5 MC14013BFR
IC6 BA7605N
TR7 2SD601A
TR8 2SB709A
TR9 2SB709A
TR10 2SB709A
TR11 2SD601A
TR12 DTC144EK
TR13 2SD601A
TR14 2SB709A
TR15 2SB709A
TR16 2SD601A
TR17 2SD601A
TR19 2SD601A
TR20 2SD601A
TR22 DTC144EK
VIDEO OUT
Y/C MIX
75 DRIVER
REGULATOR
R OUT
G OUT
B OUT
DELAY
CLAMP
SYNC ADD
BPF
MATRIX
R-Y MODULATOR
B-Y MODULATOR
SIN PULSE
PHASE SHIFTER
PULSE GEN
TXT MIX
A.Vcc
D.Vcc
A.GND
D.GND
DC SYNC
HSYNC
OSD IN
OSD OUT
MIX OUT
OSD/TXT
APC DET
FUL TXT
P1
D.GND
NTSC
ALSV
TXT MIX
OSD/TXT
FULL TXT
BLANK
RESET
TO MAIN PCB 3/5 P413
P2
TO MAIN PCB 1/5 P614
VPST PCB V1229A5080

B (POWER SUPPLY) LINE

Y VPT SIGNAL LINE

Y IN (TUNER) SIGNAL LINE

CHROMA VPT SIGNAL LINE

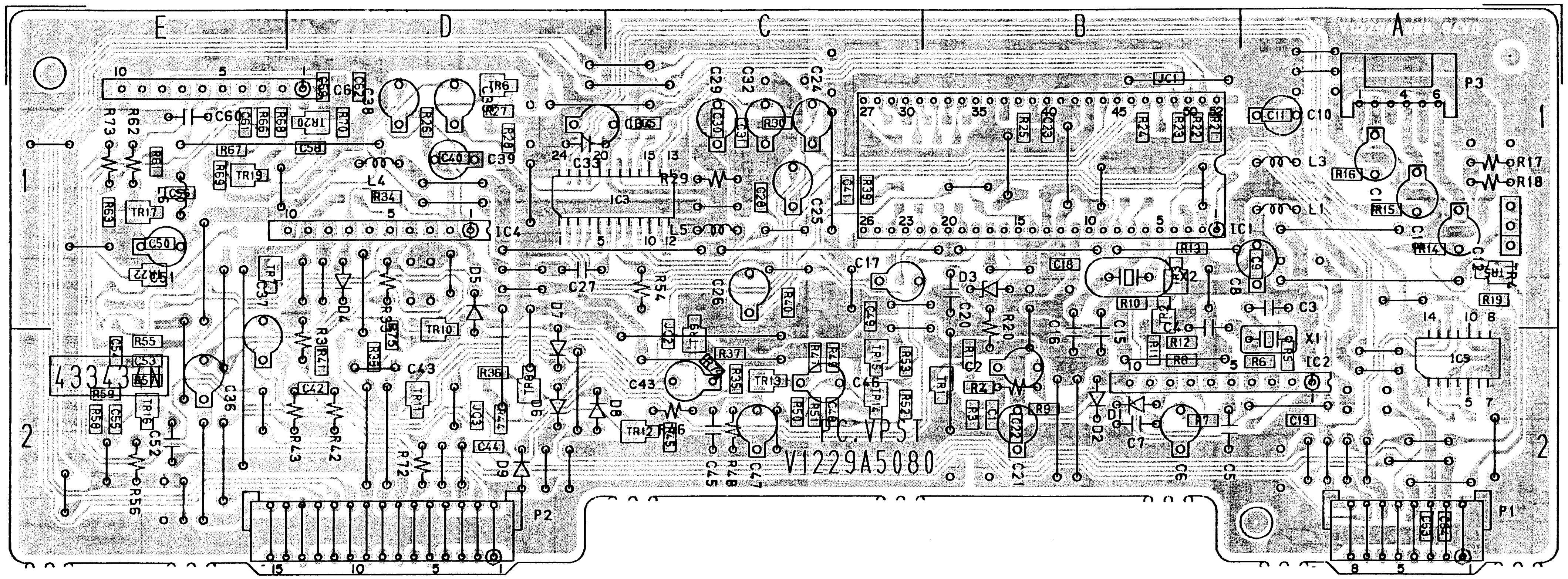
CHROMA IN (TUNER) SIGNAL LINE

NOTE:
UNLESS OTHERWISE SPECIFIED
0.01μF/0.1μF CAPACITORS IN 25WV
ALL CAPACITORS IN μF (P=PF) 50WV (J)
ALL RESISTORS IN OHMS 1/4W (J) or 1/10W (J)
ALL ELECTROLYTIC CAPACITORS IN μF/WV
ALL INDUCTORS IN μF (J)
ALL DIODES ARE 1SS131T

INDICATED VOLTAGES WERE MEASURED
DURING E-E (STOP) MODE.
(WITHOUT TELE TEXT SIGNAL)

VS-G858EOG-VD
VPST
SCHEMATIC DIAGRAM

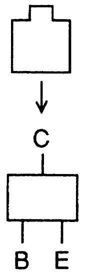
NO.17-13 V122913M A1

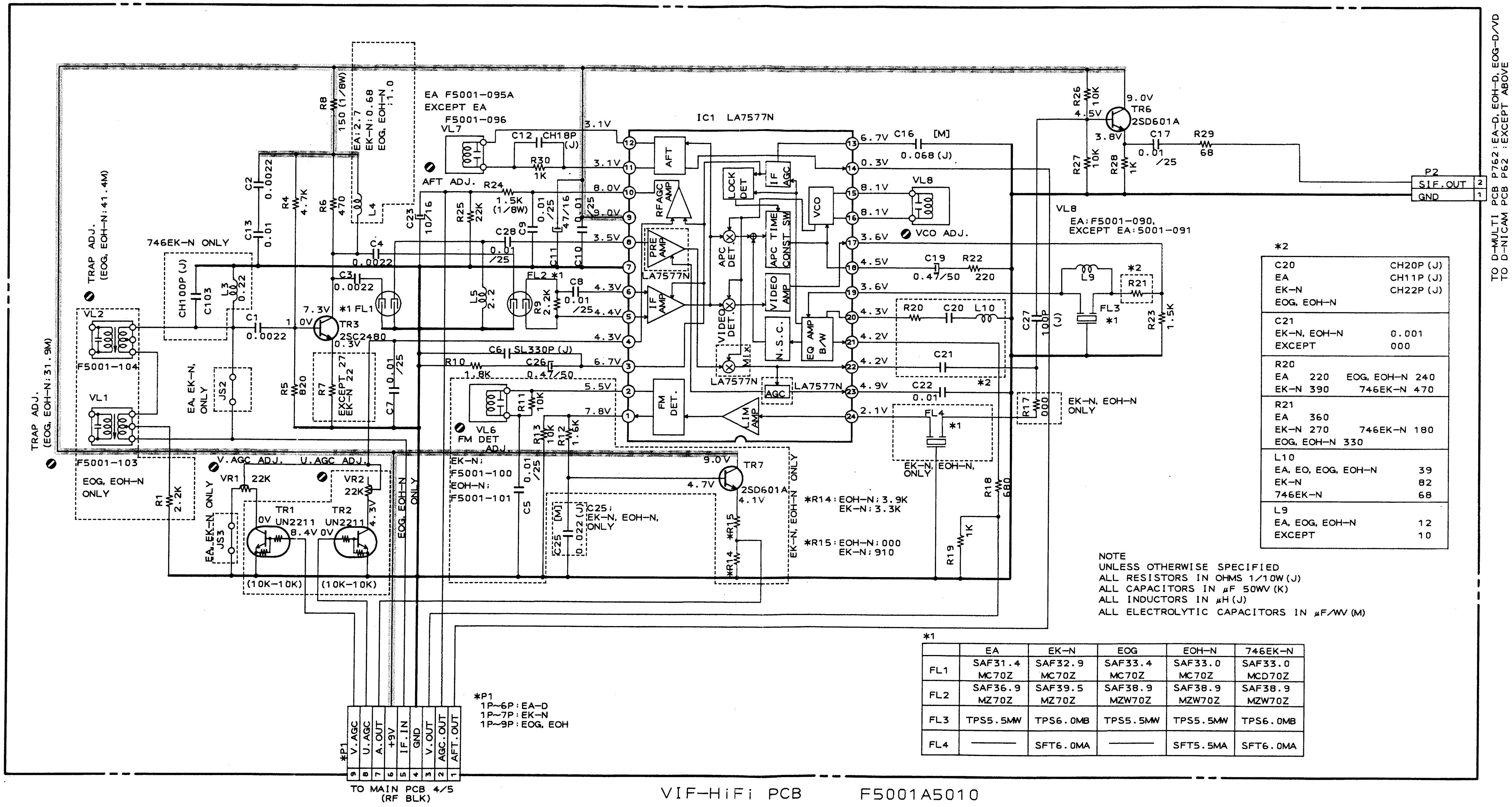

E
D
C
B
A
1
2
P1
P2
P3
IC1
IC2
IC3
IC4
IC5
X1
PC.VPST
VI229A5080

VPST PCB VI229A5080

NOTE : PART DIFFER DEPENDING ON MODEL NUMBER.
REFER TO SCHEMATIC DIAGRAMS FOR PERTINENT
PARTS INFORMATION.

SINGLE CHIP
TRANSISTOR




IC1 LA7577N
AFT
RFAGC AMP
PRE AMP
IF AMP
LOCK DET
IF AGC
VCO
APC DET
APC TIME CONST SW
VIDEO AMP
VIDEO DET
N.S.C.
EQ AMP B/W
MIX
AGC
FM DET.
LIM AMP
LA7577N
EA F5001-095A
EXCEPT EA
F5001-096
VL7
AFT ADJ.
VL8
VCO ADJ.
VL8
EA:F5001-090,
EXCEPT EA:5001-091
TR6
2SD601A
9.0V
TR3
2SC2480
TR7
2SD601A
TR1 UN2211
TR2 UN2211
(10K-10K)
VL1
VL2
F5001-104
F5001-103
TRAP ADJ.
(EOG, EOH-N:41.4M)
TRAP ADJ.
(EOG, EOH-N:31.9M)
746EK-N ONLY
EOG, EOH-N ONLY
EA, EK-N, ONLY
V.AGC ADJ.
U.AGC ADJ.
VR1 22K
VR2 22K
VL6
FM DET ADJ.
EK-N; F5001-100
EOH-N; F5001-101
C25; EK-N, EOH-N, ONLY
*R14: EOH-N; 3.9K
EK-N; 3.3K
*R15: EOH-N; 000
EK-N; 910
EK-N, EOH-N ONLY
EK-N, EOH-N, ONLY
EK-N, EOH-N ONLY
P2
SIF.OUT
GND
TO D-MULTI PCB P762: EA-D, EOH-D, EOG-D/VD
TO D-NICAM PCB P62 : EXCEPT ABOVE
*P1
V.AGC
U.AGC
A.OUT
+9V
IF.IN
GND
V.OUT
AGC.OUT
AFT.OUT
*P1
1P~6P: EA-D
1P~7P: EK-N
1P~9P: EOG, EOH
TO MAIN PCB 4/5
(RF BLK)
A
B
C
D
E
F
G
H
1
2
3
4
5
6

*2

C20			CH20P (J)
EA			CH11P (J)
EK-N			CH22P (J)
EOG, EOH-N			
C21			
EK-N, EOH-N			0.001
EXCEPT			000
R20			
EA	220	EOG, EOH-N	240
EK-N	390	746EK-N	470
R21			
EA	360		
EK-N	270	746EK-N	180
EOG, EOH-N	330		
L10			
EA, EO, EOG, EOH-N			39
EK-N			82
746EK-N			68
L9			
EA, EOG, EOH-N			12
EXCEPT			10

NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/10W (J)
ALL CAPACITORS IN μF 50WV (K)
ALL INDUCTORS IN μH (J)
ALL ELECTROLYTIC CAPACITORS IN μF/WV (M)

*1

	EA	EK-N	EOG	EOH-N	746EK-N
FL1	SAF31.4 MC70Z	SAF32.9 MC70Z	SAF33.4 MC70Z	SAF33.0 MC70Z	SAF33.0 MCD70Z
FL2	SAF36.9 MZ70Z	SAF39.5 MZ70Z	SAF38.9 MZW70Z	SAF38.9 MZW70Z	SAF38.9 MZW70Z
FL3	TPS5.5MW	TPS6.0MB	TPS5.5MW	TPS5.5MW	TPS6.0MB
FL4	———	SFT6.0MA	———	SFT5.5MA	SFT6.0MA

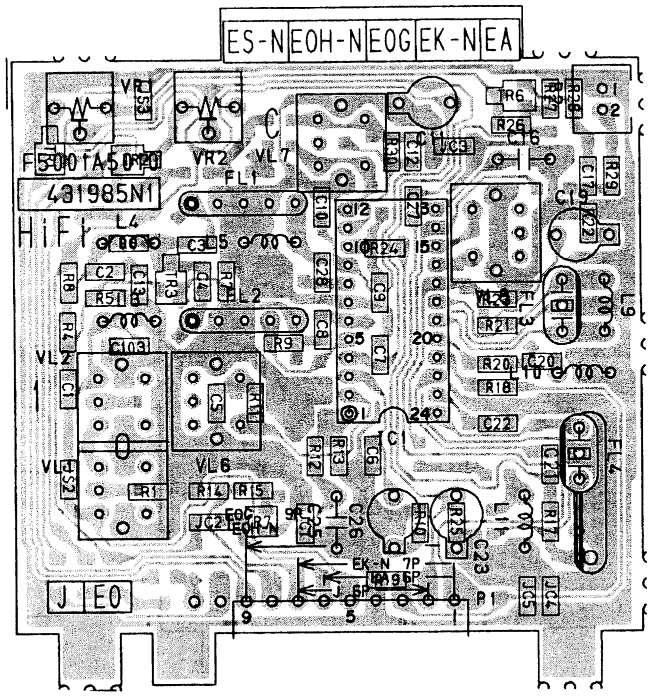
VIF-HiFi PCB F5001A5010

INDICATED VOLTAGES WERE MEASURED
DURING E-E (STOP) MODE.
(WHEN A STATION WAS BEING RECEIVED)

▨ B (POWER SUPPLY) LINE

VIF Hi-Fi
(EXCEPT EDG MODEL)
SCHEMATIC DIAGRAM

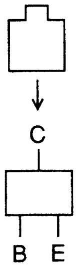
NO.17-14 V122914M A2

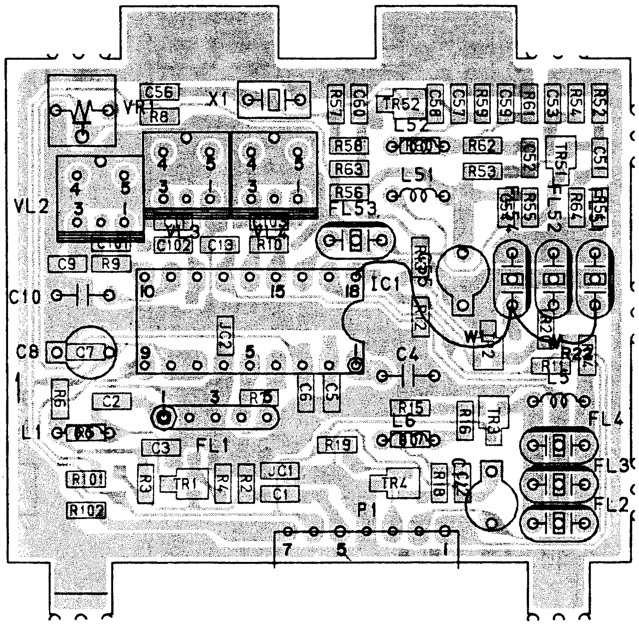

ES-N
E0H-N
E0G
EK-N
EA
VR1
S3
VR2
VL7
FL1
F5010fA5010
431985N1
HiFi
L4
L5
C3
C2
R51
C13
TR3
C4
R7
FL2
R8
R4
C103
VL2
C1
C5
R11
VL6
VL1
S2
R1
R14
R15
JC2
E0G
E0H-N
C25
C26
EK-N
7P
6P
J
E0
9
5
1
P1
IC1
12
13
10
15
R24
C28
C9
C7
C8
R9
20
24
R12
R13
C6
R10
R25
C23
L11
R17
JC5
JC4
FL4
C21
C22
R18
R20
C20
L10
R21
R23
FL3
L9
C19
R29
C17
R26
C16
TR6
R27
R28
C12
R30
JC3
C10
C27
TR2
1
2

VIF-Hi-Fi PCB F5001A5010

NOTE : PART DIFFER DEPENDING ON MODEL NUMBER. REFER TO SCHEMATIC DIAGRAMS FOR PERTINENT PARTS INFORMATION.

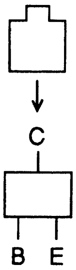
SINGLE CHIP TRANSISTOR



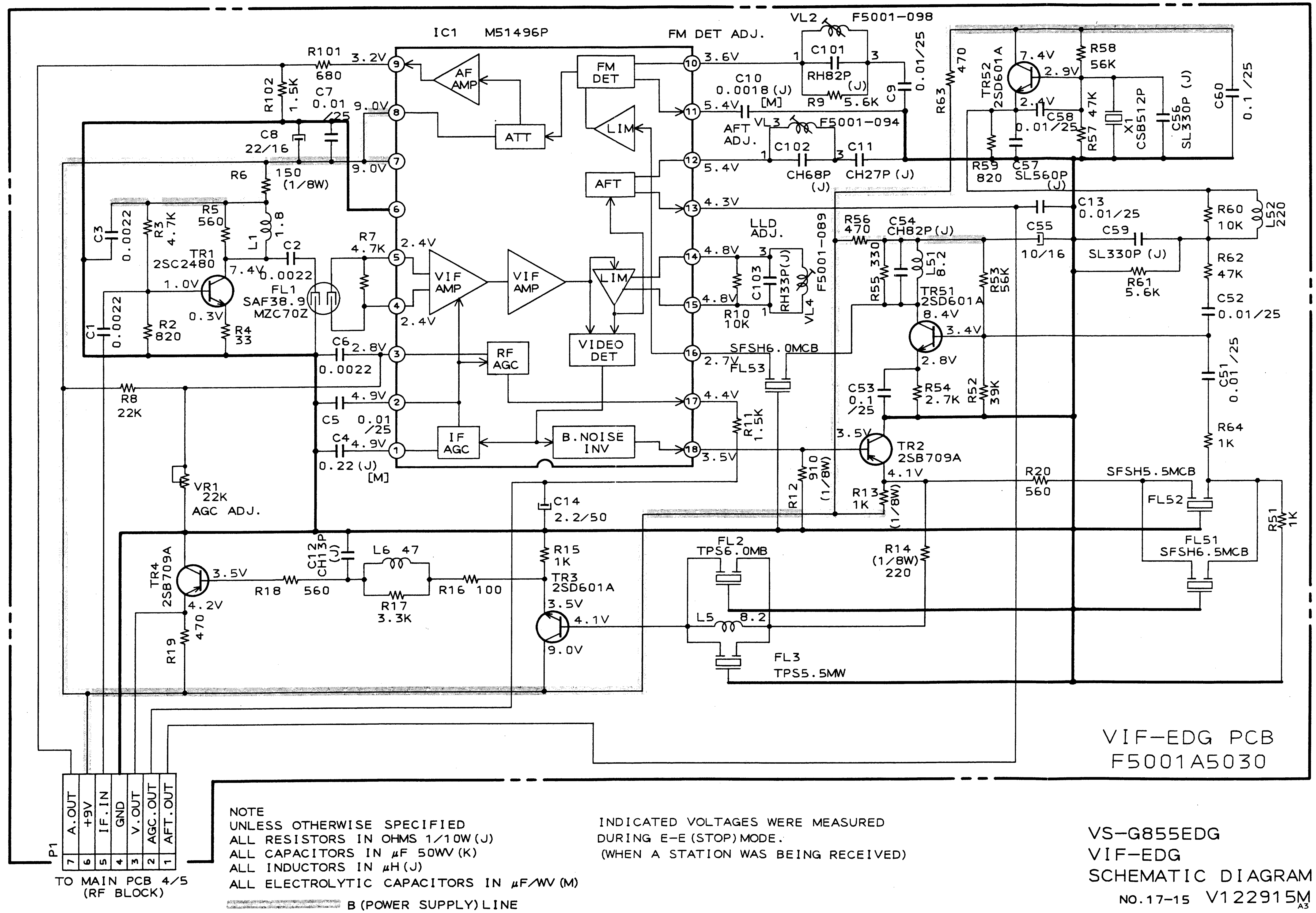

VR1
C56
R8
X1
R57
C60
TR52
L52
C58
C57
R59
C59
R61
C53
R54
R52
VL2
R58
R60
R62
R63
L51
R53
R51
TR51
C51
R56
FL53
R55
R64
C54
FL52
R65
VL3
VL1
C101
C102
C13
R10
C9
R9
C10
IC1
10
15
18
9
5
1
C8
C7
JC2
C4
W1
R21
R22
R11
L5
R6
C2
R7
C6
C5
R15
R16
TR3
FL4
L1
R5
L6
R17
C3
FL1
R19
FL3
R101
R3
TR1
R4
R2
JC1
C1
TR4
R18
C12
FL2
R102
P1
7
5
1

VIF-EDG PCB F5001A5030

SINGLE CHIP
TRANSISTOR



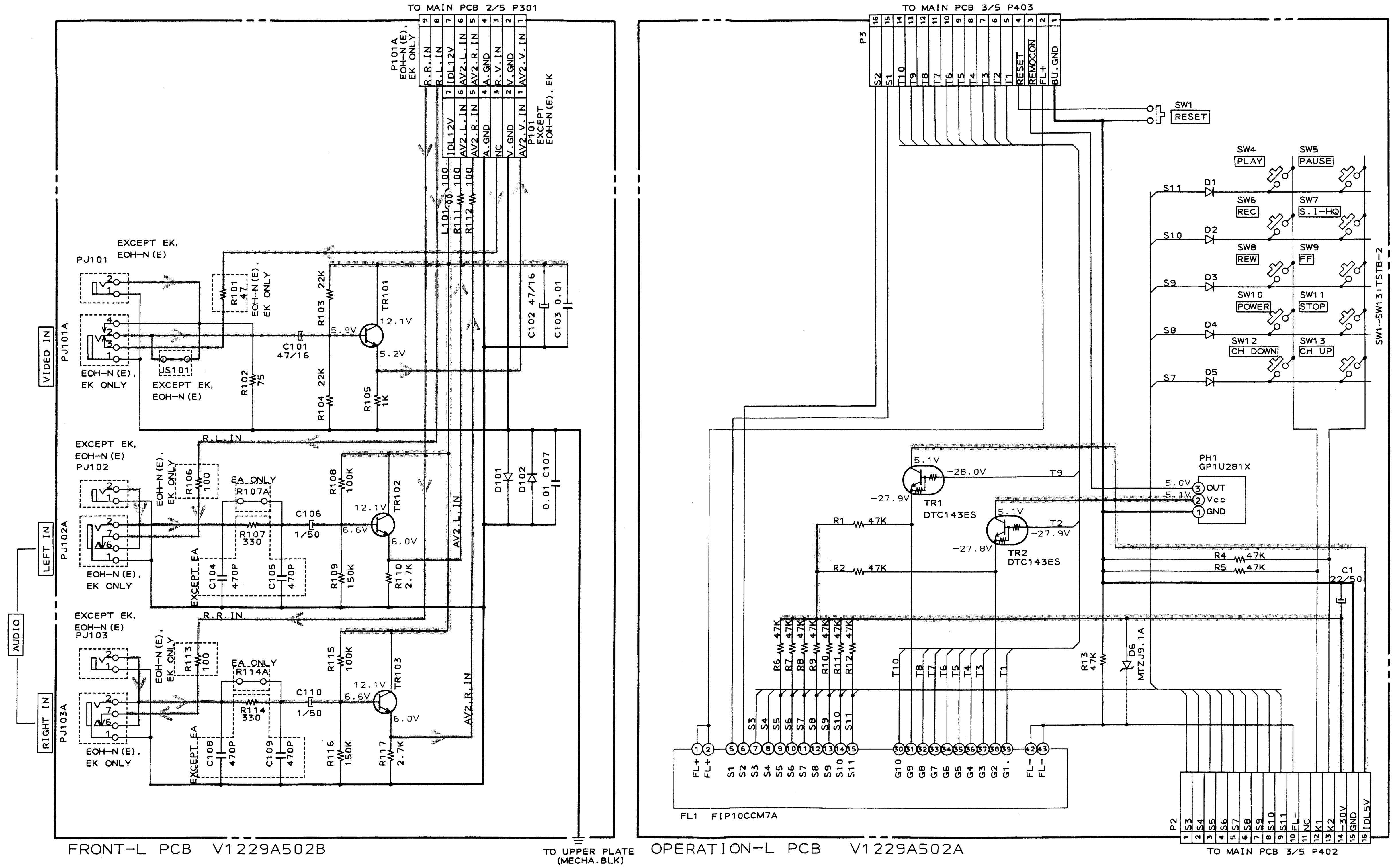
NOTE : PARTS DIFFER DEPENDING ON MODEL NUMBER.
REFER TO SCHEMATIC DIAGRAMS FOR PERTINENT
PARTS INFORMATION.


IC1 M51496P
AF AMP
FM DET
ATT
LIM
AFT
VIF AMP
VIF AMP
LIM
VIDEO DET
RF AGC
IF AGC
B.NOISE INV
FM DET ADJ.
VL2 F5001-098
C101 RH82P (J)
R9 5.6K
C9 0.01/25
C10 0.0018 (J) [M]
AFT ADJ.
VL3 F5001-094
C102 CH68P (J)
C11 CH27P (J)
LLD ADJ.
C103 RH33P(J)
VL4 F5001-089
R10 10K
SFSH6.0MCB FL53
R101 680
R102 1.5K
C7 0.01 /25
C8 22/16
R6 150 (1/8W)
L1 1.8
C2 0.0022
C3 0.0022
R3 4.7K
R5 560
TR1 2SC2480
R2 820
R4 33
C1 0.0022
FL1 SAF38.9 MZC70Z
R7 4.7K
C6 0.0022
C5 0.01 /25
C4 0.22 (J) [M]
R8 22K
VR1 22K AGC ADJ.
C14 2.2/50
R15 1K
TR3 2SD601A
TR4 2SB709A
R18 560
C12 CH13P (J)
L6 47
R17 3.3K
R16 100
R19 470
R11 1.5K
R12 910 (1/8W)
R13 1K (1/8W)
R14 (1/8W) 220
TR2 2SB709A
FL2 TPS6.0MB
L5 8.2
FL3 TPS5.5MW
R63 470
TR52 2SD601A
R58 56K
R57 47K
X1 CSB512P
C56 SL330P (J)
C60 0.1 /25
C58 0.01/25
R59 820
C57 SL560P (J)
C13 0.01/25
C55 10/16
C59 SL330P (J)
R61 5.6K
R60 10K
L52 220
R62 47K
C52 0.01/25
C51 0.01 /25
R64 1K
R56 470
C54 CH82P(J)
R55 330
L51 8.2
R53 56K
TR51 2SD601A
C53 0.1 /25
R54 2.7K
R52 39K
R20 560
SFSH5.5MCB FL52
FL51 SFSH6.5MCB
R51 1K
3.2V 9.0V 9.0V 2.4V 2.4V 2.8V 4.9V 4.9V
3.6V 5.4V 5.4V 4.3V 4.8V 4.8V 2.7V 4.4V 3.5V
7.4V 1.0V 0.3V 3.5V 4.2V 3.5V 4.1V 9.0V
7.4V 2.9V 2.4V 8.4V 3.4V 2.8V 3.5V 4.1V
P1
A.OUT
+9V
IF.IN
GND
V.OUT
AGC.OUT
AFT.OUT
7 6 5 4 3 2 1
TO MAIN PCB 4/5 (RF BLOCK)
VIF-EDG PCB
F5001A5030

NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/10W (J)
ALL CAPACITORS IN μF 50WV (K)
ALL INDUCTORS IN μH (J)
ALL ELECTROLYTIC CAPACITORS IN μF/WV (M)
▨ B (POWER SUPPLY) LINE

INDICATED VOLTAGES WERE MEASURED
DURING E-E (STOP) MODE.
(WHEN A STATION WAS BEING RECEIVED)

VS-G855EDG
VIF-EDG
SCHEMATIC DIAGRAM
NO.17-15 V122915M A3


TO MAIN PCB 2/5 P301
P101A
EOH-N(E), EK ONLY
R.R.IN
R.L.IN
IDL12V
AV2.L.IN
AV2.R.IN
A.GND
R.V.IN
V.GND
AV2.V.IN
P101
EXCEPT EOH-N(E), EK
NC
L101 100
R111 100
R112 100
PJ101
EXCEPT EK, EOH-N(E)
VIDEO IN
PJ101A
EOH-N(E), EK ONLY
US101
EXCEPT EK, EOH-N(E)
R101 47
EOH-N(E), EK ONLY
R102 75
R103 22K
R104 22K
R105 1K
C101 47/16
TR101
5.9V
12.1V
5.2V
C102 47/16
C103 0.01
PJ102
EXCEPT EK, EOH-N(E)
R.L.IN
LEFT IN
PJ102A
AUDIO
R106 100
EA ONLY
R107A
R107 330
C104 470P
C105 470P
EXCEPT EA
C106 1/50
R108 100K
R109 150K
R110 2.7K
TR102
6.6V
6.0V
D101
D102
C107 0.01
PJ103
EXCEPT EK, EOH-N(E)
R.R.IN
RIGHT IN
PJ103A
R113 100
R114A
R114 330
C108 470P
C109 470P
C110 1/50
R115 100K
R116 150K
R117 2.7K
TR103
AV2.R.IN
FRONT-L PCB V1229A502B
TO UPPER PLATE (MECHA.BLK)
TO MAIN PCB 3/5 P403
P3
S2 S1 T10 T9 T8 T7 T6 T5 T4 T3 T2 T1 RESET REMOCON FL+ BU.GND
SW1 RESET
SW4 PLAY
SW5 PAUSE
SW6 REC
SW7 S.I-HQ
SW8 REW
SW9 FF
SW10 POWER
SW11 STOP
SW12 CH DOWN
SW13 CH UP
SW1~SW13 : TSTB-2
S11 D1
S10 D2
S9 D3
S8 D4
S7 D5
PH1 GP1U281X
5.0V OUT
5.1V Vcc
GND
TR1 DTC143ES
5.1V
-28.0V
-27.9V
T9
TR2 DTC143ES
-27.8V
-27.9V
T2
R1 47K
R2 47K
R4 47K
R5 47K
C1 22/50
R6~R12 47K
R13 47K
D6 MTZJ9.1A
FL+ FL+ S1 S2 S3 S4 S5 S6 S7 S8 S9 S10 S11
G10 G9 G8 G7 G6 G5 G4 G3 G2 G1 FL- FL-
FL1 FIP10CCM7A
P2
S3 S4 S5 S6 S7 S8 S9 S10 S11 FL- NC K1 K2 -30V GND IDL5V
TO MAIN PCB 3/5 P402
OPERATION-L PCB V1229A502A

▬ B (POWER SUPPLY) LINE

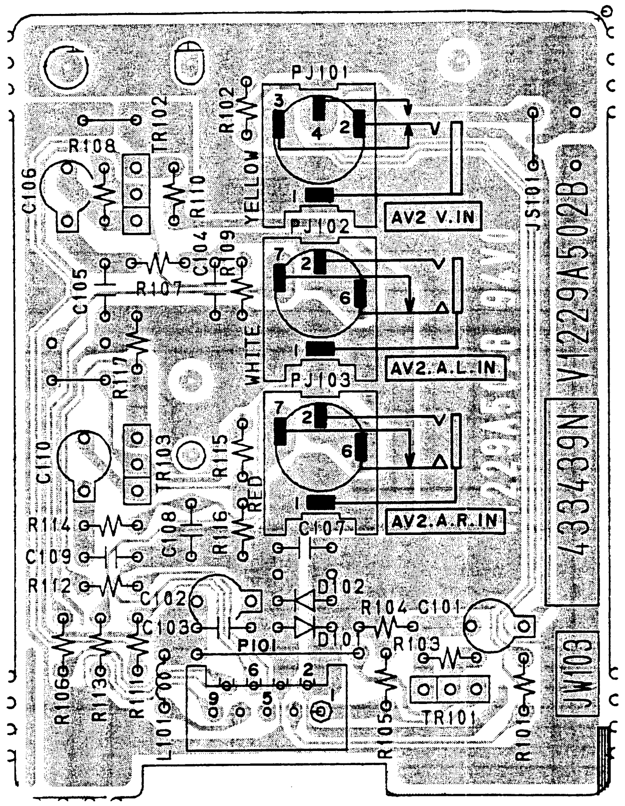
▬ VIDEO IN SIGNAL LINE

▬ AUDIO IN SIGNAL LINE

NOTE;
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS
ALL CAPACITORS IN μF (P=PF)
ALL ELECTROLYTIC CAPACITORS IN μF/WV
ALL DIODES ARE 1SS131T
ALL NPN TRANSISTERS ARE 2SC1740S OR 2SC3330

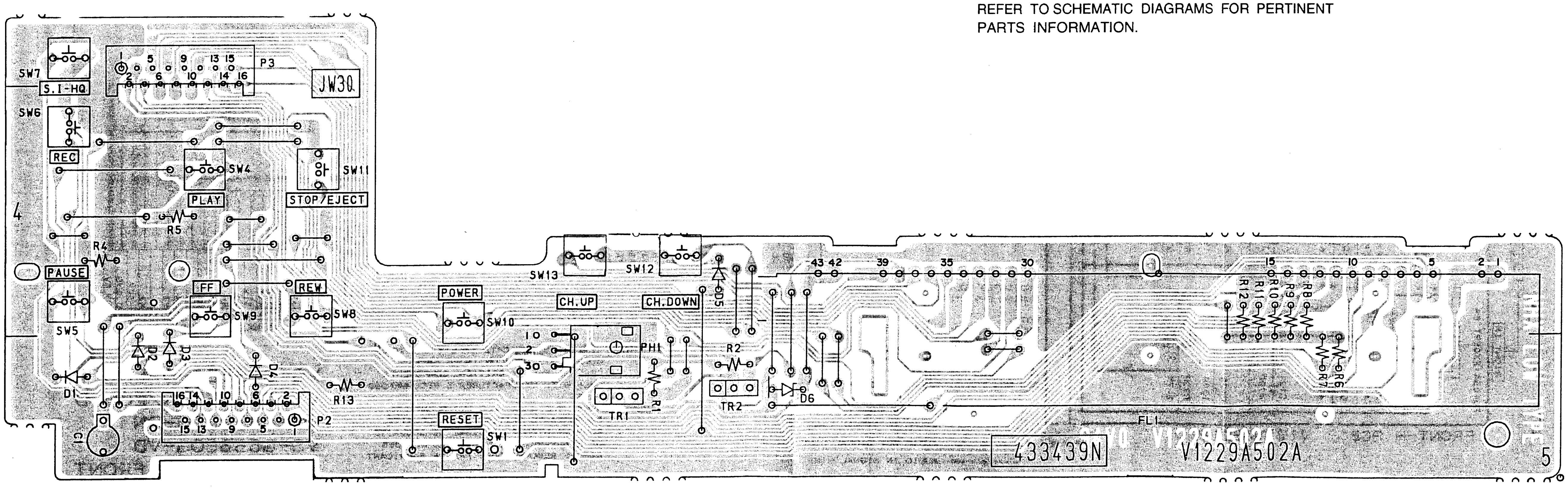
INDICATED VOLTAGES WERE MEASURED DURING E-E (STOP) MODE.

VS-G740EOH-D
VS-G745EA-D/EK-N/EOH-D
VS-G746EK-N, G755EOH-N
VS-G757EOG-D
OPERATION & FRONT
SCHEMATIC DIAGRAMS
NO.17-16 V122916M A2

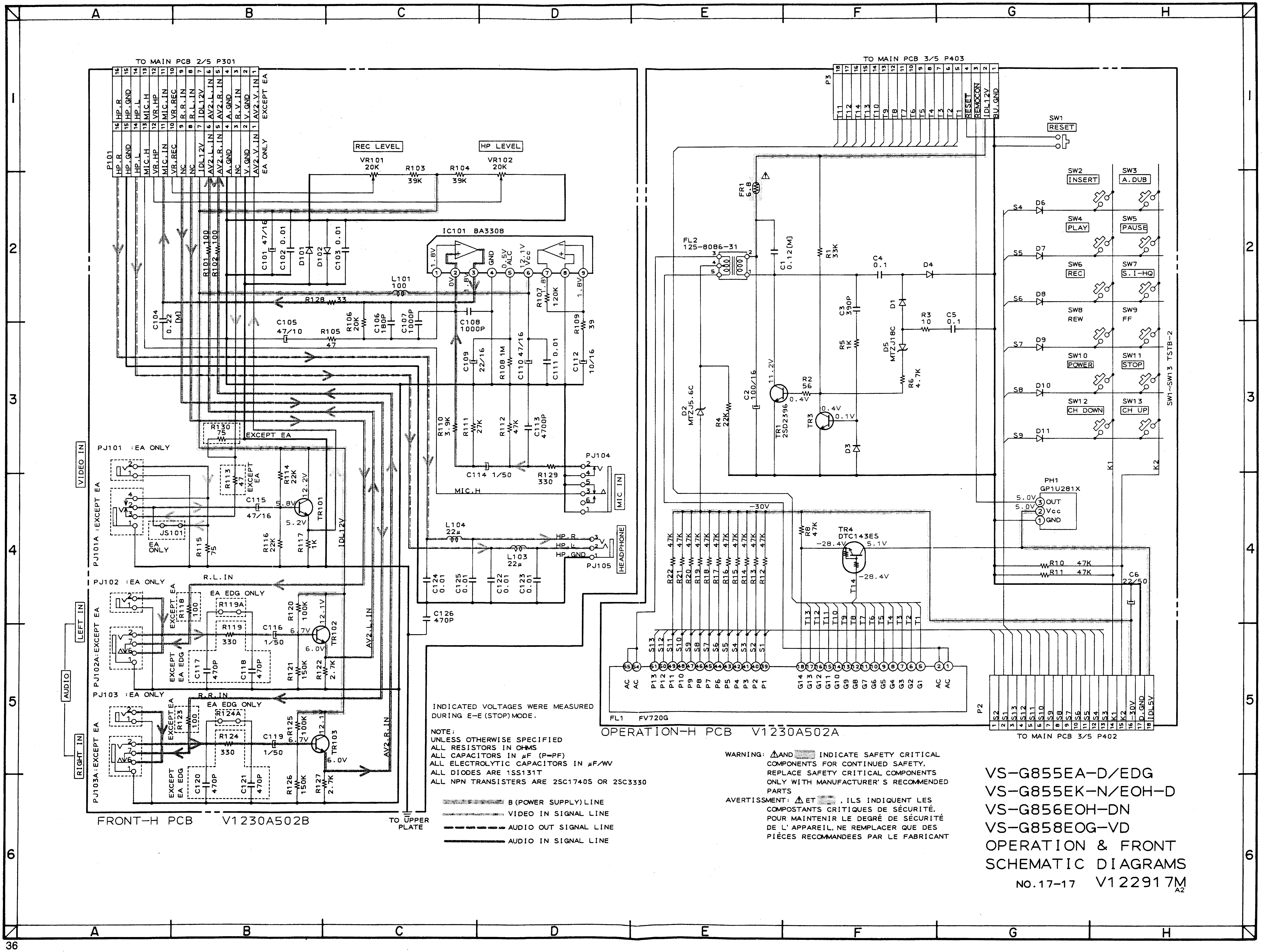

PJ101
R108
TR102
R102
C106
R110
YELLOW
PJ102
AV2 V.IN
JS101
C105
R107
C104
R109
AV2.A.L.IN.
PJ103
R117
WHITE
C110
TR103
R115
RED
R116
C108
C107
AV2.A.R.IN
R114
C109
R112
C102
D102
R104
C101
C103
P101
D101
R103
R106
R113
R111
L101
R105
TR101
R101
JW103
433439N
V1229A502B

FRONT-L PCB VI229A502B

NOTE : PART DIFFER DEPENDING ON MODEL NUMBER. REFER TO SCHEMATIC DIAGRAMS FOR PERTINENT PARTS INFORMATION.


SW7
S.I-HQ
P3
JW30
SW6
REC
SW4
PLAY
SW11
STOP/EJECT
R5
R4
PAUSE
FF
SW9
REW
SW8
SW5
D1
D2
D3
D4
C1
P2
R13
POWER
SW10
RESET
SW1
SW13
CH.UP
SW12
CH.DOWN
D5
PH1
R1
TR1
R2
TR2
D6
R12
R11
R10
R9
R8
R6
R7
FL1
433439N
V1229A502A
4
5

OPERATION-L PCB VI229A502A


A
B
C
D
E
F
G
H
1
2
3
4
5
6
TO MAIN PCB 2/5 P301
HP.R
HP.GND
HP.L
MIC.H
VR.HP
MIC.IN
VR.REC
R.R.IN
R.L.IN
IDL12V
AV2.L.IN
AV2.R.IN
A.GND
R.V.IN
V.GND
AV2.V.IN
EXCEPT EA
P101
NC
EA ONLY
REC LEVEL
VR101 20K
R103 39K
R104 39K
VR102 20K
HP LEVEL
IC101 BA3308
C101 47/16
C102 0.01
D101
D102
C103 0.01
R101 100
R102 100
L101 100
R128 33
C104 0.22 [M]
C105 47/10
R105 47
R106 20K
C106 180P
C107 1000P
C108 1000P
C109 22/16
R108 1M
C110 47/16
C111 0.01
C112 10/16
R107 120K
R109 39
R110 3.9K
R111 27K
R112 47K
C113 4700P
C114 1/50
R129 330
PJ104
MIC IN
MIC.H
R130 75
EXCEPT EA
VIDEO IN
PJ101 :EA ONLY
PJ101A :EXCEPT EA
R113 47
R114 22K
C115 47/16
TR101
JS101
R115 75
R116 22K
R117 1K
IDL12V
L104 22μ
L103 22μ
HP.R
HP.L
HP.GND
PJ105
HEADPHONE
C124 0.01
C125 0.01
C122 0.01
C123 0.01
C126 470P
R.L.IN
PJ102 :EA ONLY
PJ102A:EXCEPT EA
LEFT IN
AUDIO
EA EDG ONLY
R118 100
R119A
R119 330
C116 1/50
R120 100K
TR102
C117 470P
C118 470P
R121 150K
R122 2.7K
AV2.L.IN
R.R.IN
PJ103 :EA ONLY
PJ103A:EXCEPT EA
RIGHT IN
R123 100
R124A
R124 330
C119 1/50
R125 100K
TR103
C120 470P
C121 470P
R126 150K
R127 2.7K
AV2.R.IN
FRONT-H PCB V1230A502B
TO UPPER PLATE
TO MAIN PCB 3/5 P403
P3
T11
T12
T14
T13
T10
T9
T8
T7
T6
T5
T4
T3
T2
T1
RESET
REMOCON
IDL12V
BU.GND
SW1 RESET
FR1 6.8
FL2 125-8086-31
C1 0.12 [M]
R1 33K
C4 0.1
D4
C3 390P
D1
R3 10
C5 0.1
R5 1K
D5 MTZJ18C
R6 4.7K
C2 100/16
11.2V
R2 56
0.4V
0.1V
TR1 2SD2396
TR3
D2 MTZJ5.6C
R4 22K
D3
SW2 INSERT
SW3 A.DUB
SW4 PLAY
SW5 PAUSE
SW6 REC
SW7 S.I-HQ
SW8 REW
SW9 FF
SW10 POWER
SW11 STOP
SW12 CH DOWN
SW13 CH UP
SW1~SW13 TSTB-2
S4 D6
S5 D7
S6 D8
S7 D9
S8 D10
S9 D11
K1
K2
PH1 GP1U281X
5.0V OUT
5.0V Vcc
GND
-30V
R22 ... R12 47K
R8 47K
TR4 DTC143ES
-28.4V
5.1V
T14
R10 47K
R11 47K
C6 22/50
FL1 FV720G
AC
P13 P12 P11 P10 P9 P8 P7 P6 P5 P4 P3 P2 P1
G14 G13 G12 G11 G10 G9 G8 G7 G6 G5 G4 G3 G2 G1
S13 S12 S11 S10 S9 S8 S7 S6 S5 S4 S3 S2 S1
P2
S2 S1 S13 S11 S10 S9 S8 S7 S6 S5 S4 S3 K1 K2 -30V D.GND IDL5V
TO MAIN PCB 3/5 P402
OPERATION-H PCB V1230A502A

INDICATED VOLTAGES WERE MEASURED DURING E-E (STOP) MODE.

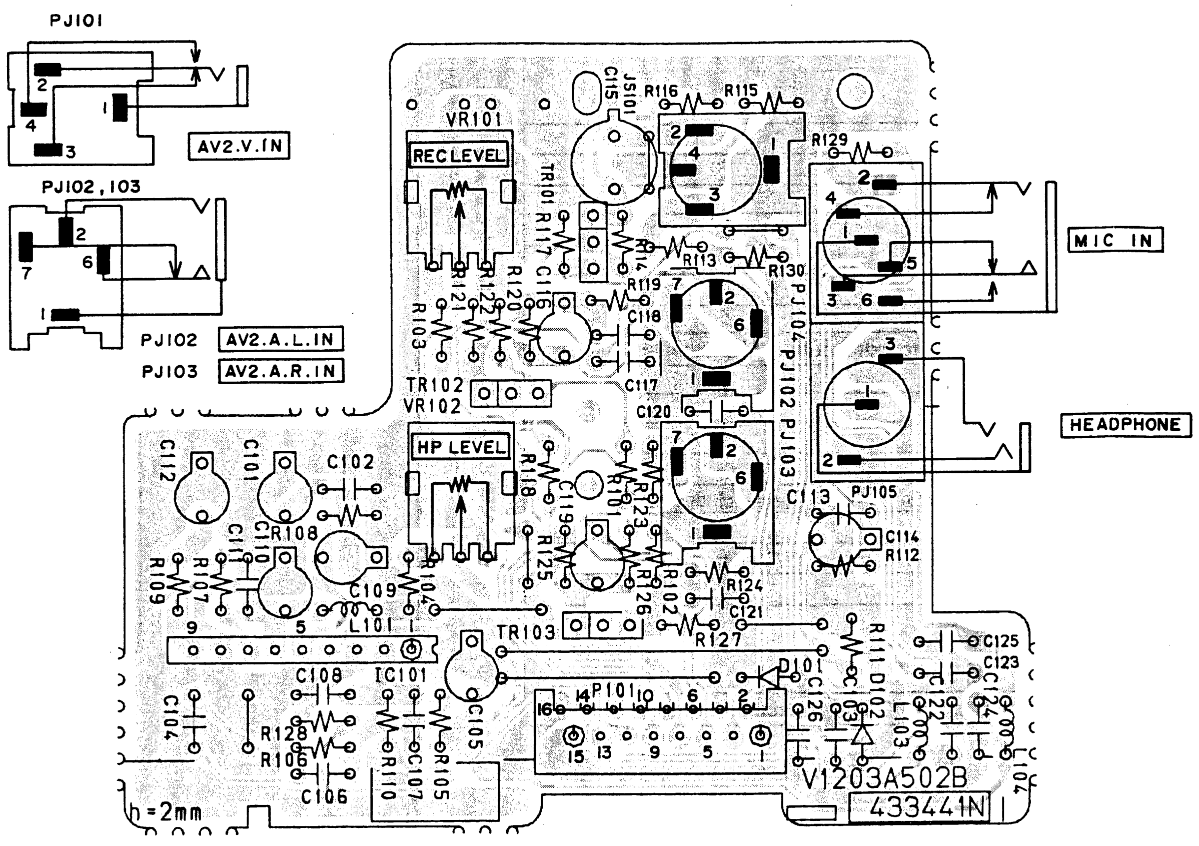
NOTE;
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS
ALL CAPACITORS IN μF (P=PF)
ALL ELECTROLYTIC CAPACITORS IN μF/WV
ALL DIODES ARE 1SS131T
ALL NPN TRANSISTERS ARE 2SC1740S OR 2SC3330

▨ B (POWER SUPPLY) LINE
▨ VIDEO IN SIGNAL LINE
- - - AUDIO OUT SIGNAL LINE
── AUDIO IN SIGNAL LINE

WARNING: ⚠AND ▨ INDICATE SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY. REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

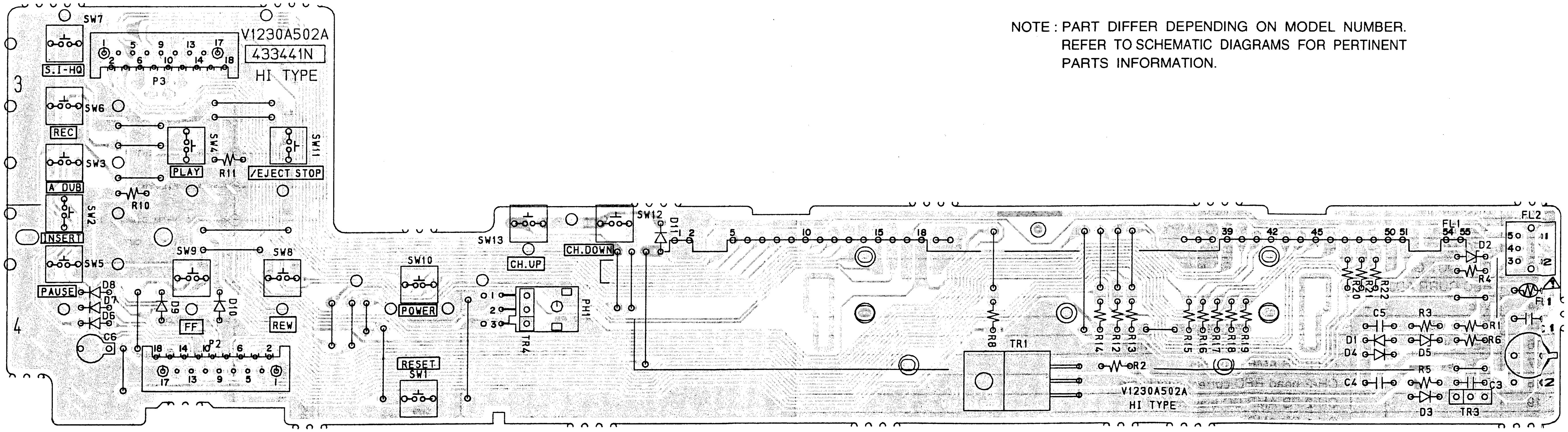
AVERTISSMENT: ⚠ ET ▨ , ILS INDIQUENT LES COMPOSTANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDEES PAR LE FABRICANT

VS-G855EA-D/EDG
VS-G855EK-N/EOH-D
VS-G856EOH-DN
VS-G858EOG-VD
OPERATION & FRONT
SCHEMATIC DIAGRAMS
NO.17-17 V122917M A2


PJ101
AV2.V.IN
PJ102,103
PJ102 AV2.A.L.IN
PJ103 AV2.A.R.IN
VR101
REC LEVEL
HP LEVEL
TR101
TR102
VR102
TR103
IC101
P101
PJ102
PJ103
PJ104
PJ105
MIC IN
HEADPHONE
V1203A502B
433441N
h=2mm

FRONT-H PCB V1230A502B

NOTE : PART DIFFER DEPENDING ON MODEL NUMBER.
REFER TO SCHEMATIC DIAGRAMS FOR PERTINENT
PARTS INFORMATION.


V1230A502A
433441N
HI TYPE
P3
SW7
S.I-HQ
SW6
REC
SW3
A.DUB
SW2
INSERT
SW5
PAUSE
SW4
PLAY
SW11
/EJECT STOP
SW9
FF
SW8
REW
P2
SW10
POWER
RESET
SW1
SW13
CH.UP
SW12
CH.DOWN
PH1
TR4
TR1
FL1
FL2
TR3
V1230A502A
HI TYPE

OPERATION-H PCB V1230A502A

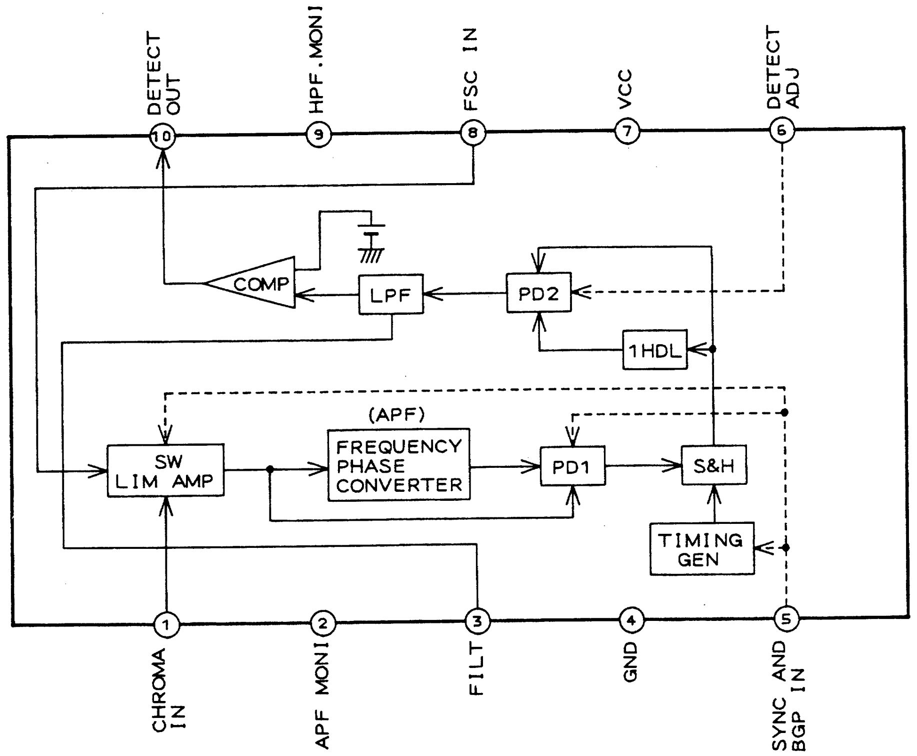
WARNING: ⚠ INDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY,
REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S
RECOMMENDED PARTS

AVERTISSEMENT: ⚠IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ.
POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL,
NE REMPLACER QUE DES PIÈCES RECOMMANDEES PAR LE FABRICANT

CXA1645M (RGB ENCODER)

PIN No.	PORT NAME	I/O	FUNCTION
1	GND1	–	Ground (except RGB output, composite video output, Y/C output circuit).
2	R IN	I	Analog RGB signal input pin.
3	G IN	I	
4	B IN	I	
5	N.C	–	
6	SC IN	I	Sub carrier input pin.
7	NP IN	I	NTSC, PAL mode select pin. (H : NTSC, L : PAL)
8	BF OUT	O	Burst flag output for monitoring.
9	YCLPC	–	Time constant setting pin for Y signal clamp.
10	SYNC IN	I	Composite sync signal input pin.
11	N.C		
12	VCC1	–	+5 V power supply (except RGB output, composite video output, Y/C output circuit).
13	IREF	–	Pin for fixing internal reference current.
14	VREF	–	Pin for internal reference voltage.
15	C OUT	O	Chroma signal output pin.
16	Y OUT	O	Y signal output pin.
17	YTRAP	–	Pin for reducing cross colour by the sub carrier frequency component included in Y signal
18	FO	–	Internal filter fo adjustment pin.
19	VCC2	–	+5 V power supply (for RGB output, composite video output, Y/C output circuit).
20	CVOUT	O	Composite video signal output.
21	B OUT	O	Analog RGB signal output pin.
22	G OUT	O	
23	R OUT	O	
24	GND2	–	Ground (for RGB output,composite video output, Y/C output circuit).

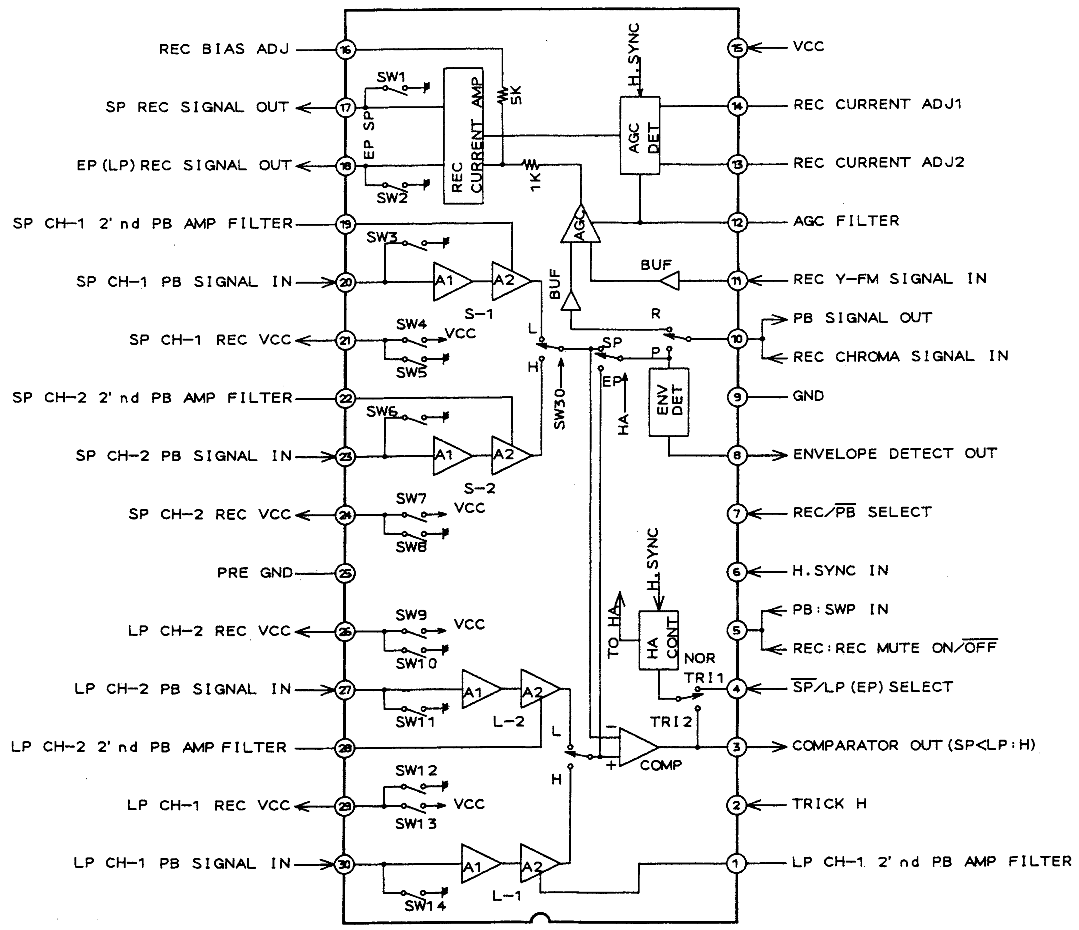
LA7356 (PAL/SECAM DETECTOR)


DETECT OUT
HPF.MONI
FSC IN
VCC
DETECT ADJ
10
9
8
7
6
COMP
LPF
PD2
1HDL
(APF)
SW
LIM AMP
FREQUENCY
PHASE
CONVERTER
PD1
S&H
TIMING
GEN
1
2
3
4
5
CHROMA IN
APF MONI
FILT
GND
SYNC AND BGP IN

LA7256 (REC/HEAD AMP FOR Hi-Fi FM AUDIO)

PIN No.	PORT NAME	I/O	FUNCTION
1	ASWP	–	CH-1/CH-2 switching pulse input pin.
2	$\overline{\text{LP}}$/SP	–	AMP gain select control regarding the tape speed. (L : SP, H : LP)
3	PB FM OUT	O	PB AFM signal output pin.
4	REC MUTE	–	REC MUTE control pin. (L : mute off, H : mute on)
5	REC/$\overline{\text{PB}}$	–	REC/PB select control. (L : PB, H : REC)
6	GND	–	Ground pin for PB output stage & REC.
7	BUFF IN	I	Buffer AMP input pin.
8	BUFF OUT	O	Buffer AMP output pin.
9	REC FM IN	I	REC AFM signal input pin.
10	AGC FILT	–	This pin detects REC AMP's AGC DET output.
11	REC MODE	–	REC mode control pin. (L : normal, M : over REC, H : S-VHS)
12	REC OUT GND	–	Ground pin for REC AMP output stage.
13	REC CURR ADJ	–	REC current control pin.
14	Vcc	–	+5 V supply pin.
15	REC BIAS	–	REC current AMP input section.
16	REC OUT	O	REC curent output & PB on switch.
17	CH-2 IN	I	CH-2 PB AMP input pin.
18	PSW2	O	CH-2 head REC current supply pin.
19	FILT2	–	CH-2 PB AMP DC bias control.
20	CH-1 IN	I	CH-1 PB AMP input pin.
21	PB GND	–	Ground for PB AMP.
22	FILT1	–	CH-1 PB AMP DC bias control.
23	NC	–	No connection.
24	PSW1	O	CH-1 head REC current supply pin.

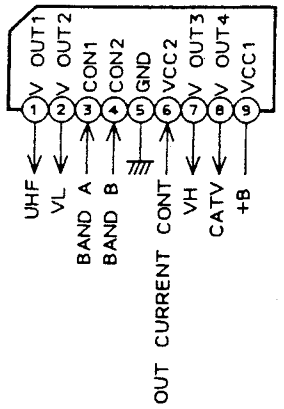
LA7416 (4-CH REC/HEAD AMP)


REC BIAS ADJ
SP REC SIGNAL OUT
EP (LP) REC SIGNAL OUT
SP CH-1 2' nd PB AMP FILTER
SP CH-1 PB SIGNAL IN
SP CH-1 REC VCC
SP CH-2 2' nd PB AMP FILTER
SP CH-2 PB SIGNAL IN
SP CH-2 REC VCC
PRE GND
LP CH-2 REC VCC
LP CH-2 PB SIGNAL IN
LP CH-2 2' nd PB AMP FILTER
LP CH-1 REC VCC
LP CH-1 PB SIGNAL IN
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
SW1
SW2
EP SP
REC CURRENT AMP
5K
1K
H.SYNC
AGC DET
AGC
BUF
BUF
SW3
A1
A2
S-1
SW4
VCC
SW5
L
H
SW30
R
SP
P
EP
HA
ENV DET
SW6
S-2
SW7
VCC
SW8
SW9
VCC
SW10
SW11
L-2
H.SYNC
TO HA
HA CONT
NOR
TRI1
TRI2
COMP
SW12
VCC
SW13
SW14
L-1
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1
VCC
REC CURRENT ADJ1
REC CURRENT ADJ2
AGC FILTER
REC Y-FM SIGNAL IN
PB SIGNAL OUT
REC CHROMA SIGNAL IN
GND
ENVELOPE DETECT OUT
REC/$\overline{\text{PB}}$ SELECT
H.SYNC IN
PB : SWP IN
REC : REC MUTE ON/$\overline{\text{OFF}}$
$\overline{\text{SP}}$/LP (EP) SELECT
COMPARATOR OUT (SP<LP : H)
TRICK H
LP CH-1 2' nd PB AMP FILTER

LA7447BM (Y/C SIGNAL PROCESSOR)

PIN No.	PORT NAME	I/O	FUNCTION
1	MAIN-EMPH	–	Main emphasis filter pin.
2	NL-EMPH	–	Main emphasis filter.
3	PIC-CTL/EDIT	–	Picture control (soft: 2.0 - 2.45 V, hard: 2.55 - 3.0V)/edit (3.8 V or more).
4	AGC-TC2	–	Capacitor connecting pin for AGC DET.
5	YNR-CTL	–	YNR-OFF: 1.0 V or less, YNR-CTL: 1.5 - 2.5 V, YNR-STRONG: 3.5 V or more.
6	NC-CTL	–	NC (noise cancel) off (PB): 1.5 V or less, NC-CTL (PB): 2.0 - 3.0 V.
7	VIDEO-IN	I	REC/E-E video signal input.
8	Vcc	–	+5 V power supply.
9	C-SYNC OUT	O	Composite sync signal output.
10	VCA-FILT	–	Capacitor connecting pin for VCA.
11	VIDEO-OUT	O	E-E or PB video signal out.
12	C.ROT	I	Chroma rotary pulse input.
13	VCA-IN	I	VCA AMP input.
14	QV,QH,CHA-IN	I	Quasi V-pulse & Quasi H-pulse input/character signal input.
15	CCD DRIVE	O	Y signal out pin to Y-CCD.
16	AGC-TC1/BAL	–	Capacitor connection pin for AGC-TC1 and balancer.
17	C-CCD DRIVE1	O	Chroma signal out pin to chroma CCD1.
18	NL-ON	–	L or H: NL OFF, M: NL ON (weak).
	DETAIL-ENHA	–	L or H: detail enhancer normal, M: weak & fc down.
19	C-CCD DRIVE2	O	Chroma signal out pin to chroma CCD2.
20	GND	–	Ground terminal.
21	C-CCD IN	I	Chroma signal input pin from chroma CCD.
22	MODE-CTL	–	SP: 0 - 1.2 V, LP: 2.0 - 2.7 V, EP: 3.9 - 5.0 V.
23	CHROMA-IN	I	Chroma signal input from comb filter.
	SP CS-STOP	–	H: SP carrier shift stop.
24	NAP CTL	–	NAP: 3.3 - 5.0 V, B.M out: 2.0 - 2.7 V, THRU: 0 -1.2 V.
25	CHROMA-OUT	O	PB chroma signal output. H (SECAM mode): mute ON.
26	$\overline{\text{P}}$/S/N	–	Colour mode switching pin (NTSC: 3.9 - 5.0 V, MESEC: 2.0 - 2.7 V, PAL: 0-1.2V).
27	VXO-IN1	I	Crystal connecting pin (4.43 MHz).
28	VXO-OUT1	O	Crystal connecting pin (4.43 MHz).
29	REC-APC FIL	–	Capacitor connecting pin for REC APC detector.
	TRICK-H	–	3.9 V or more after COMB in SP mode.
30	N.C	–	Not used.
31	N.C	–	Not used.
32	N.C	–	Not used.
33	Vcc-1	–	+5 V power supply pin.
34	BGP-OUT	O	Burst gate pulse output pin.
35	N.C	–	Not used.
36	SLD-FILT	–	Capacitor connecting pin for SLD.
37	AFC/APC FILT	–	Capacitor connecting pin for AFC DET (REC) or APC DET (PB).
38	REC C-OUT	O	REC low chroma signal output.
	PB C-IN	I	PB low chroma signal input.
39	KILL-FILT	–	Capacitor connecting pin for killer detector.
40	KILLER-OUT	O	REC: APC killer out (H: killer ON).
	SLD-OUT	O	PB: side lock detector pulse output.
41	ACC-FILT	–	Capacitor connecting pin for ACC AMP.
42	GND	–	Ground pin.
43	PB FM-IN	I	PB-Y FM signal input.
44	MOD-OUT	O	REC-Y modulator output signal.
	DOC-STOP	–	Drop-out compensator control (H: DOC stop).
45	VREG	–	4.2 V regulator out.
46	REC-Y	O	REC-Y signal output.
	MAIN DE-EMPH OUT	O	Main de-emphasis output.
47	CLAMP	I	Clamp circuit input.
48	EMPH-OUT	–	Main emphasis out.
	R/P CTL	–	REC/PB control (PB: H).

LA7910 (TUNER BAND SELECTOR)



INPUT		OUTPUT			
CON1	CON2	V OUT1	V OUT2	V OUT3	V OUT4
L	L	H	Z	Z	Z
H	L	Z	H	Z	Z
L	H	Z	Z	H	Z
H	H	Z	Z	Z	H

Z : HIGH IMPEDANCE

LC74763 (CHARACTER GENERAOR)

PIN No	PORT NAME	I/O	FUNCTION
1	Vss	—	Connect the GND
2	XTAL in1	I	14.318 MHz crystal oscillator input
3	XTAL out1	O	14.318 MHz crystal oscillator output
4	H SYNC	O	AFC H sync output
5	XTAL in2	I	17.744 MHz crystal oscillator input
6	XTAL out2	O	17.744 MHz crystal oscillator output
7	V SYNC	O	V. SYNC output
8	$\overline{\text{CS}}$	I	Enable input pin of serial data input
9	SIN	I	Serial data input
10	SCLK	I	Clock input pin for serial data input
11	SECAM	I	SECAM mode select pin (H : SECAM MODE)
12	$\overline{\text{525}}$/625	I	Select pin, 525 or 625 of scanning line
13	$\overline{\text{NTSC}}$/PAL	I	NTSC/PAL SELECT PIN (L : NTSC)
14	$\overline{\text{3.58}}$/4.43	I	3.58MHz or 4.43MHz select input
15	$\overline{\text{RST}}$	I	System reset input
16	CVOUT	O	Composite video signal output
17	VDD2	—	Power supply (+5 V)
18	CVIN	I	Composite video signal input
19	CVCR	I	Chroma signal input for SECAM mode
20	SYNC IN	I	Video signal input of internal sync separator circuit
21	SEPC	—	Adjustment pin of internal sync separator circuit
22	Vss	—	Connect the GND
23	PD OUT	O	AFC control voltage output
24	AM PIN	I	Filter connect pin for AFC circuit
25	AM POUT	O	Filter connect pin for AFC circuit
26	FC	I	AFC control voltage input
27, 28	VCO IN (out)	I/O	Coil and capacitor connecting pin of LC oscillator for VCO.
29	SYNC DET	O	Exclusive NOR logic output of H SYNC AND C SYNC
30	VDD1	—	Digital power supply (+5 V)

M37774M7H-110GP~115GP (SYSTEM CONTROL & SERVO MI-COM)

PIN No.	PORT NAME	I/O	FUNCTIOM
1	SYS RDY	I	Data transfer ready signal input.
2	TU PWM	O	Tuning voltage output for tuner. (PWM)
3	CM PWM	O	Capstan motor's speed & phase error output. (PWM)
4	DM PWM	O	Drum motor's speed & phase error output. (PWM)
5	SRP	I	Supply reel pulse input.
6	TRP	I	Take up reel pulse input.
7	S.DET	I	SECAM (MESECAM) judge input. (SECAM/MESECAM : H)
8	C.SYNC	I	Composite sync input. (for video judge)
9	N.C	–	No connection.
10	V.INSERT	I	REC control for video section (REC & PB : L, E-E : H). This pin is kept in H level for a very short period (approx. 0.5 sec) after the REC mode has been engaged. Also kept in L level for appro x. 0.5 sec after the REC mode is disengaged.
11	REMOCON	I	Remote control signal input.
12	PIC/V.REC V	O	PB : picture control output. REC : Video head REC current (AGC) control output.
13	NC CTL	O	Noise cancel circuit control output.
14	V.SWP	O	Video head switching pulse output.
15	C.ROT	O	Chroma rotation pulse output pin.
16	HEAD CTL	O	Video head SP/LP select.
17	COMP OUT	I	Input from PRE AMP's comparator (for head select when CUE/REV).
18	N.C	–	No connection.
19	EE	O	E-E mode control pin.
20	VP	O	Quasi V pulse output.
21	V.TUNE	O	Tuning output for I-HQ system (L,M or H).
22	YNR	O	Y noise reduction control output.
23	REC/MUTE	O	REC mute control output for Hi-Fi audio section (H : mute)
24	A.INSERT	O	Control output for Hi-Fi REC current. (Its operation is the same as V. INSERT)
25	A.SWP	O	Audio switching pulse output for Hi-Fi head.
26	BU5V	–	+5 V buck up power supply.
27	PS	–	Not used.
28	TRQ UP	O	Loading motor torque control.
29	LM F	O	Loading motor direction control. (forward)
30	LM R	O	Loading motor direction control. (reverse)
31~34	RSW1~4	I	Input from the rotary (MECHA. position detect) switch 1~4.
35	NUB	–	No connection.
36	NUA	–	No connection.
37	RESET	I	Reset input.
38	X.IN	I	Main clock OSC input. (f = 16 MHz)
39	X.OUT	O	Main clock OSC output.(f= 16 MHz)
40	CLK SEL	I	Clock select input. (H : main & sub clock OSC are active, L : only sub clock OSC is active)
41	VSS	–	Ground.
42	XC IN	I	Sub clock OSC input. (f = 32.768 kHz)
43	XC OUT	O	Sub clock OSC output. (f = 32.768 kHz)
44	I²C SCL	O	EEP ROM serial clock output.
45	I²C SDA	I/O	EEP ROM serial data input/output.
46,47	N.C	–	No connection.
48	AL TU	O	AL power supply control output. (H : AL power on)
49	AV1/AV2	O	AV /AV2 select control output.
50	REC SAF	I	REC safety switch input.
51	VJ	O	Video judge output. (no signal : L)
52	AFT	O	AFT on/off control output.
53	BAND A	O	Tuner band select output.
54	BAND B	O	Tuner band select output.
55	TV/VCR	O	TV/VIDEO select control output.
56	INT/EXT	O	Input select control output.
57	A.MUTE	O	Audio mute control.
58	TRICK	O	H when trick mode.
59	TUNE H	O	I-HQ control for video section.
60	T.MUTE	O	Tuner mute control.
61	REC/PB	O	REC/PB select control. (L : PB, H : REC/EE)
62	CM STOP	O	Capstan motor stop control.
63	F/R	O	Capstan motor direction control. (FWD/REV)
64	CTL GAIN	O	CTL AMP gain select when FF/REW.
65	AMP VCC	O	+5 V power supply for analog AMP section.
66	DM PG	I	Drum motor PG signal input.
67	DM FG	I	Drum motor FG signal input.
68	CAP FG	I	Capstan motor FG signal input.
69	VREF OUT	O	Reference voltage output for analog AMP.
70	VREF IN	I	Reference voltage input for analog AMP.
71	CTL AMPF	I	CTL clamp AMP positive input.
72	CTL AMPR	I	CTL clamp AMP negative input.
73	AMP OUT	O	CTL AMP output.
74	AMP.C	–	Capacitor connecting pin for CTL AMP.
75	CTLAMP IN	I	CTL AMP input.
76	+SW OUT	O	CTL switched output.
77	CTL+	I	CTL positive side input/output.
78	CTL–	I	CTL negative side input/output.
79	CTL VSS	–	Ground for CTL.
80	AMP VSS	–	Ground for AMP.
81	BU5V	–	+5 V buck up power supply.
82	VREF	–	Reference voltage input for A/D converter.
83	N.C	–	No connection.
84	C.K.DET	I	APC killer detect/SLD pulse input.
85	AFT IN	I	AFT error signal (analog) input.
86	ES	I	End sensor input.
87	SS	I	Start sensor input.
88	Hi-Fi DET	I	Hi-Fi / normal detect input. (Hi-Fi : L)
89	SP/EP	O	Circuit switching regarding the tape speed. (SP : L, LP : M, EP : H)
90	PAL/SE/NT	O	PAL/SECAM/NTSC select control. (L,M,H)
91	CT DET	I	Cross talk detect input (for auto tracking).
92	ENV.DET	I	Video envelope detect input. (for auto tracking & I-HQ)
93	C.SYNC	I	Composite sync input. (for internal V-sync separation)
94	CNR	O	Chroma noise reduction control output.
95	SHORT	I	Power supply abnormal condition detect input. (L : REG voltage is too high)
96	P.DOWN	I	Power down detect input.
97	RESET OUT	O	Reset output to operation MI-COM.
98	SYS DATA	O	Serial data out to operation MI-COM.
99	OPE DATA	I	Serial data in from operation MI-COM.
100	SYS CLK	O	Serial clock output to operation MI-COM.

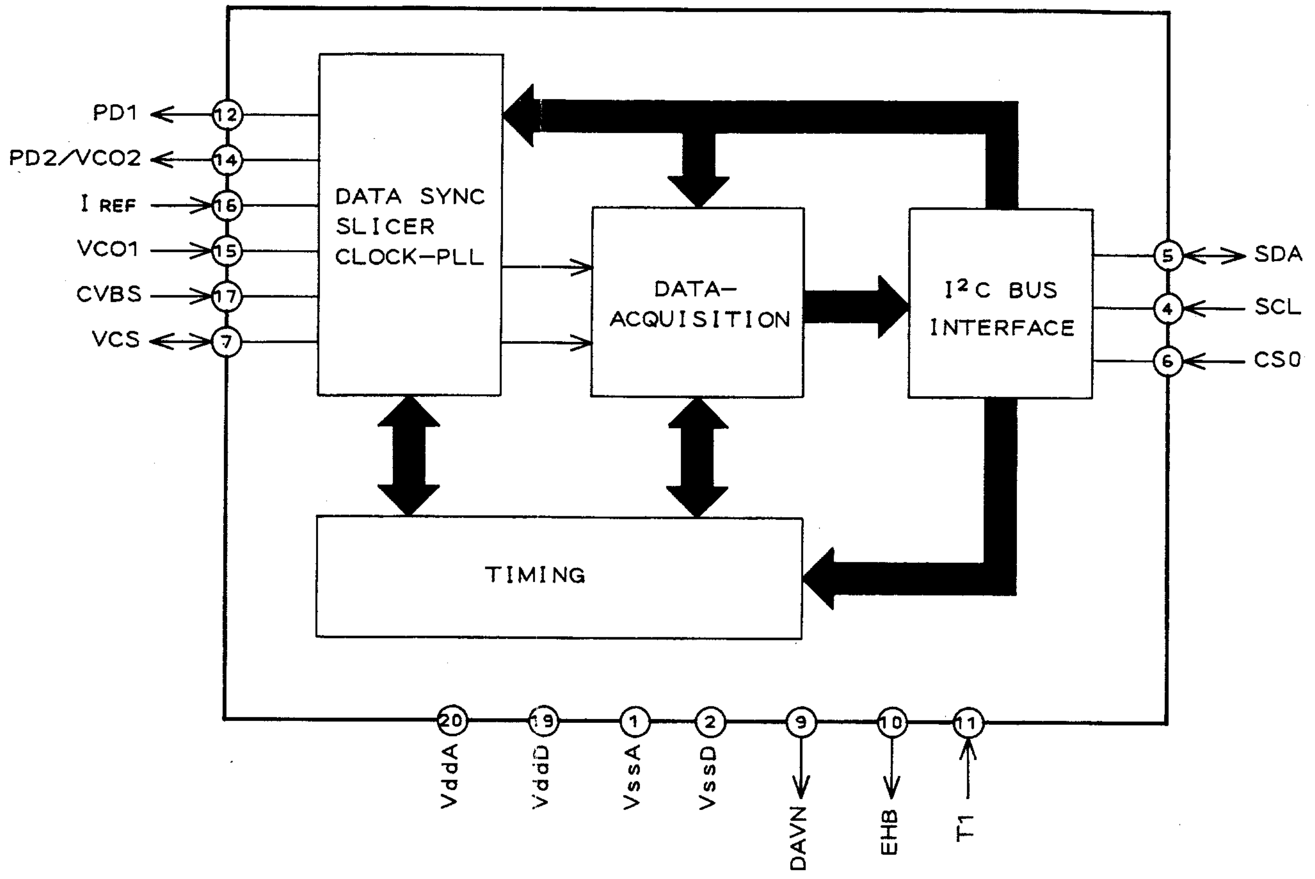
SAA7283GP (TERRESTRIAL DIGITAL SOUND DECODER)

PIN No.	PORT NAME	I/O	FUNCTION
1,5,6,9, 10,18,19, 20,26,32, 33,40,51, 52,58,60 64	NC	–	Not connected-left open circuit in application.
2	EXTR	I	External analogue input to the right audio channel.
3	FMR	I	FM sound input to the right audio channel.
4	OPR	O	Analogue output from the right audio channel.
7	VROA	O	Internal audio reference voltage buffer output.
8	VSSDAC	–	Quiet Vss to DACs.
11	OPL	O	Analogue output from the left audio channel.
12	FML	I	FM sound input to the left audio channel.
13	EXTL	I	External analogue input to the left audio channel.
14	PORM	–	Active low Power-On Reset Mute. Mute cleared by setting silence bit high in I²C. (internal pull-up)
15	PORA	–	Power-On Reset Audio select. (internal pull-up)
16	REMVE	–	Carrier loop filter connection.
17	REMO	O	Carrier loop filter output.
21	SEYE	O	Sine channel eye pattern output for monitoring.
22	SOFF	–	Sine channel offset compensator capacitor.
23	ASSF1	–	Demodulator Vss.
24	VCLK	O	Carrier loop VCO clock output for monitoring.
25	VDDF1	–	Demodulator VDD.
27	VCONT	I	Carrier loop VCO control voltage input.
28	MIXREF	–	Mixer voltage reference or input when using differential DQPSK signal.
29	DQPSK	I	DQPSK input signal.
30	COFF	–	Cosine channel offset compensator capacitor.
31	CEYE	O	Cosine channel eye pattern output for monitoring.
34	PKDET	–	AGC peak detector storage capacitor.
35	VROF	O	Internal demodulator reference voltage buffered output.
36	IREF	O	Internal demodulator reference current output.
37	VRCF	O	Internal demodulator reference voltage unbuffered output.
38	VDDF2	–	Demodulator VDD.
39	VSSF2	–	Demodulator Vss.
41	CLKLPF	O	Clock loop phase comparator output.
42	XTAL	I	8.192 MHz crystal oscillator input.
43	OSC	O	8.192 MHz crystal oscillator output.
44	VSSx	–	Crystal oscillator Vss.
45	DATAIN	I	Serial data input at 728 k bits/s to decoder.
46	DATAOUT	O	Serial data output at 728 k bits/s from demodulator.
47	PCLK	O	Output clock at 728 kHz to DQPSK demodulator.
48	VSSD	–	Digital Vss.
49	VDDD	–	Digital VDD.
50	RESET	I	Active low power-on reset.
53	SCL	I	Clock input for I²C.
54	SDA	I/O	Data input/output for I²C.
55	ADSEL	I	Input that defines I²C address bit 0. (internal pull-up)
56	PORT2	O	Output that it derectly controlled from port 2 bit in I²C.
57	MUTE	I	Active low mute input whose function is defined by mutedef bit in I²C.
59	DOBM	O	Digital audio interface output that can be tri-stated via I²C.
61	VDDA	–	Audio VDD.
62	VSSA	–	Audio Vss.
63	VRCA	–	Internal audio reference voltage buffer (high impedance node).

SDA5273S (TELE TEXT DECODER WITH RGB OUTPUT)

PIN No.	PORT NAME	I/O	FUNCTION
1	CLK-IO	I/O	System clock input/output.
2	TCSQ/FLD	O	Composite sync output/field output.
3	VS/VCS	O	Vertical sync output.
4	HS	O	Horizontal sync output.
5	XOUT	O	20.5 MHz crystal oscillator output.
6	XIN	I	20.5 MHz crystal oscillator input.
7	GPO	O	General purpose output.
8	TM	–	Testpin, leave open or connect to Vss.
9	CVBS	I	CVBS-video signal input.
10	VDD1	–	+5 V digital supply.
11	VDDA	–	+5 V analog supply.
12	VSSA1	–	Analog ground.
13	VDD2	–	+5 V digital supply.
14	RES	I	Chip reset.
15	VDD3	–	+5 V digital supply.
16	VREF	–	+3 V reference voltage input.
17	VDD4	–	+5 V digital supply.
18	A8	O	External DRAM-address.
19	A7	O	External DRAM-address.
20	A6	O	External DRAM-address.
21	A5	O	External DRAM-address.
22	A4	O	External DRAM-address.
23	A3	O	External DRAM-address.
24	A2	O	External DRAM-address.
25	A1	O	External DRAM-address.
26	A0	O	External DRAM-address.
27	A9	O	External DRAM-address.
28	A10	O	External DRAM-address.
29	A11	O	External DRAM-address.
30	RASQ	O	Row address strobe. (DRAM)
31	WEQ	O	Write enable. (DRAM)
32	D1	I/O	External DRAN-data.
33	D0	I/O	External DRAN-data.
34	D2	I/O	External DRAN-data.
35	D3	I/O	External DRAN-data.
36	VSS4	–	0 V digital supply.
37	CASQ	O	Column address strobe.
38	VSS3	–	0 V digital supply.
39	VBB	–	Substrate bias voltage.
40	ASS2	–	0 V digital supply.
41	ASSA2	–	Analog ground.
42	RGB-GND	–	RGB-ground.
43	VSS1	–	0 V digital supply.
44	R	O	Analog red display output.
45	G	O	Analog green display output.
46	B	O	Analog blue display output.
47	BLAN	O	Blanking signal open drain output.
48	CORQ	O	Contrast reduction open drain output.
49	SCL	I/O	Bidirectional I²C Bus clock port.
50	SDA	I/O	Bidirectional I²C Bus data port.
51	I²CEN	I	I²C Bus enable.
52	INTQ	O	Interrupt reguest output to ext controller.

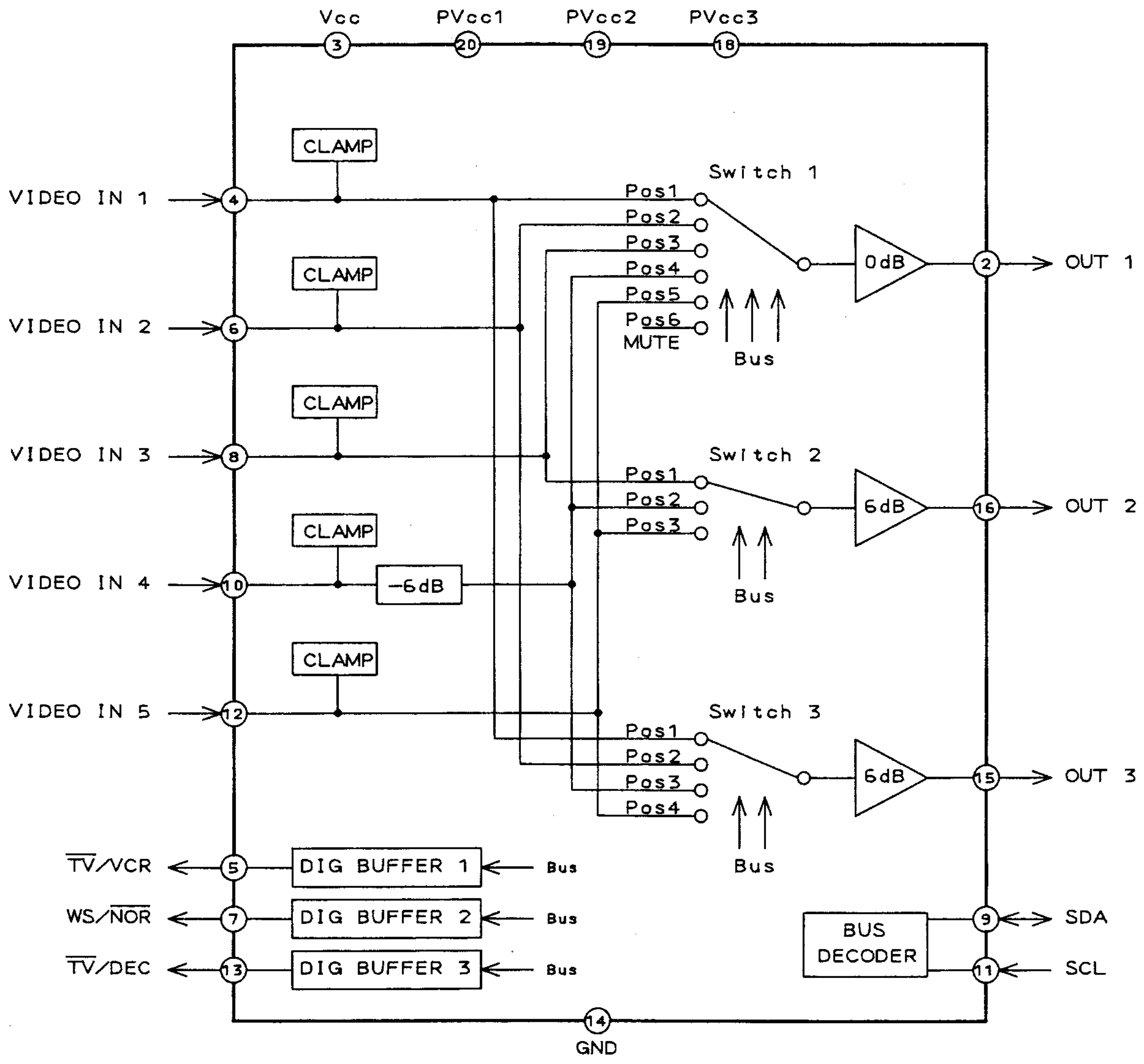
SDA5649X (PDC/VPS DECODER)


PD1
PD2/VCO2
I REF
VCO1
CVBS
VCS
12
14
16
15
17
7
DATA SYNC
SLICER
CLOCK–PLL
DATA–
ACQUISITION
I²C BUS
INTERFACE
TIMING
5
4
6
SDA
SCL
CSO
20
19
1
2
9
10
11
VddA
VddD
VssA
VssD
DAVN
EHB
T1

SDA5649X (PDC/VPS DECODER)

PIN No.	PORT NAME	I/O	FUNCTION
1	VSSA	–	Analog ground.
2	VSSD	–	Digital ground.
3	N.C.	–	No connection.
4	SCL	I	I²C bus clock input.
5	SDA	I/O	I²C bus data in/output.
6	CSO	I	Hardware address select pin of this IC (L : 20H/21H, H : 22H/23H).
7	VCS	I/O	Sliced video composite sync from CVBS signal.
8	N.C.	–	No connection.
9	DAVN	O	Data flag output (when a PDC/VPS data is received L).
10	EHB	O	First field flag output (during first field of the frame → H).
11	T1	I	Test mode control (H : test mode).
12	PD1	O	Phase detector/charge pump output for data PLL (DAPLL).
13	N.C.	–	No connection.
14	PD2/VCO2	O	Loop filter for PLL system.
15	VCO1	I	VCO input for data PLL.
16	IREF	I	Reference current input for analog circuit of this IC.
17	CVBS	I	CVBS signal input.
18	N.C.	–	No connection.
19	VDDD	–	Power supply for digital circuit (+5 V).
20	VDDA	–	Power supply for analog circuit (+5 V).

STV6400 (VIDEO SIGNAL SELECTOR)


Vcc
PVcc1
PVcc2
PVcc3
3
20
19
18
CLAMP
VIDEO IN 1
4
VIDEO IN 2
6
VIDEO IN 3
8
VIDEO IN 4
10
–6dB
VIDEO IN 5
12
Switch 1
Pos1
Pos2
Pos3
Pos4
Pos5
Pos6
MUTE
Bus
0dB
2
OUT 1
Switch 2
Pos1
Pos2
Pos3
Bus
6dB
16
OUT 2
Switch 3
Pos1
Pos2
Pos3
Pos4
Bus
6dB
15
OUT 3
TV/VCR
5
DIG BUFFER 1
Bus
WS/NOR
7
DIG BUFFER 2
Bus
TV/DEC
13
DIG BUFFER 3
Bus
BUS
DECODER
9
SDA
11
SCL
14
GND

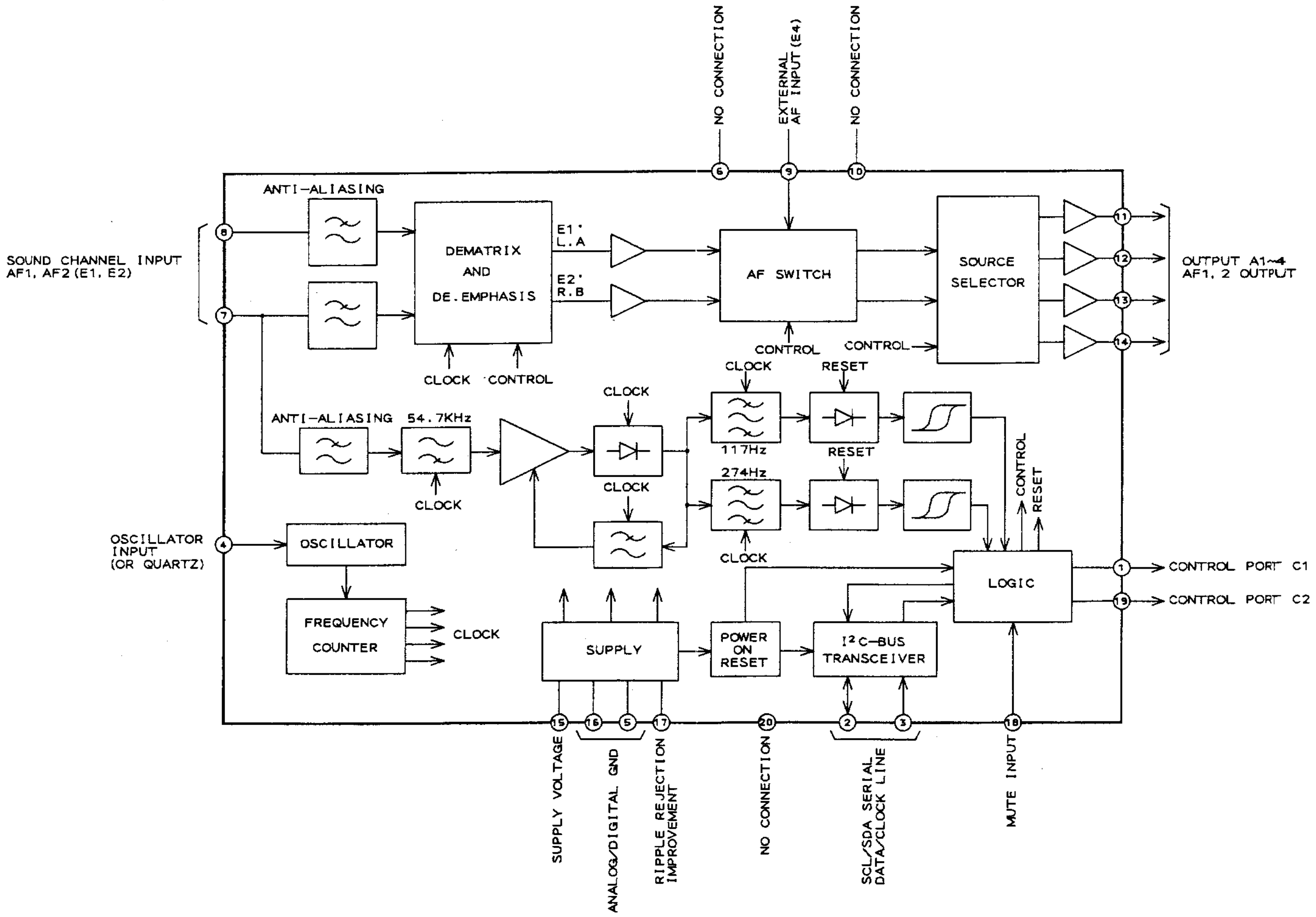
TA1225N (COMB FILTER FOR COLOUR NOISE REDUCTION)

PIN No.	PORT NAME	I/O	FUNCTION
1	GND	–	Ground pin.
2	APC DET	–	Time constant setting capacitor connecting pin for 1H delayed signal phase correction.
3	DOC IN	–	DOC (Drop out conpensator) on/off control. (H : DOC off, L : DOC on)
4	AGC DET	–	Time constant setting capacitor connecting pin for 1H delayed signal gain correction.
5	CHROMA OUT	O	Chroma signal (noise component is eliminated) output.
6	CCD IN	I	CCD delay line input pin.
7	GND2	–	Ground pin.
8	VDD	–	+5 V supply pin.
9	GND3	–	Ground pin.
10	CKIN	I	Clock pulse input pin for this CCD delay line.
11	PLL FIL	–	Phase comparator out of quadruple PLL circuit.
12	VGG	–	Rectifing capacitor connecting pin for the internal boosting circuit.
13	VOB	–	Bias pin for the output MOS AMP.
14	CCD OUT	O	Output pin of the CCD delay line.
15	DLIN	I	Input pin of the CCD delayed signal.
16	fo ADJ	–	Time constant setting capacitor connecting pin for adjustment of the CCD delay line's output BPF.
17	NR CONT	–	Cyclic factor changes by input of the corelation pulse. Grounding makes cyclic factor smaller and corelation control off.
18	MODE SELECT	–	L : EP (LP) mode, M : SP mode, H : CNR off.
19	CHROMA IN	I	Chroma signal input pin of this IC.
20	Vcc	–	+5 V supply pin.

TDA9614H (Hi-Fi & NORMAL AUDIO SIGNAL PROCESSOR)

PIN No.	PORT NAME	I/O	FUNCTION
1	SAP	I	SAP input pin. (reserved monaural input)
2	TUNL	I	L-ch tuner input pin.
3	TUNR	I	R-ch tuner input pin.
4	CINL	I	L-ch Cin-ch input pin. (MIC input)
5	CINR	I	R-ch Cin-ch input pin. (MIC input)
6	EXT1L	I	L-ch external 1 input pin.
7	EXT1R	I	R-ch external 1 input pin.
8	EXT2L	I	L-ch external 2 input pin.
9	EXT2R	I	R-ch external 2 input pin.
10	EXT3L	I	L-ch external 3 input pin.
11	EXT3R	I	R-ch external 3 input pin.
12	RAF	O	Headphone AMP REC/PLAY switching pin.
		I	I²C bit RAF non-effective input pin.
13	VDD	–	+5 V digital power supply pin for I²C.
14	SDA	I	I²C BUS serial data input pin.
15	SCL	I	I²C BUS serial clock input pin.
16	VSSD	–	Ground pin for I²C signal.
17	RFCAGC	–	RF converter AGC time constant setting pin.
18	RFCOUT	O	RF converter drive output pin.
19	LINE 2L	O	L-ch 2nd line output pin. (decoder output)
20	LINE 2R	O	R-ch 2nd line output pin. (decoder output)
21	LINE L	O	L-ch line output pin.
22	LINE R	O	R-ch line output pin.
23	DCOUT L	O	L-ch level meter driver pin.
24	DCOUT R	O	R-ch level meter driver pin.
25	HPOUT L	O	L-ch headphone output pin.
26	HPOUT R	O	R-ch headphone output pin.
27	LINAGC	–	Linear audio AGC time constant setting pin.
28	LININ	I	Audio input pin for linear audio that will be supplied to the output select circuit or REC EQ.
29	LINOUT	O	Audio output pin from AGC or PB EQ.
30	EQ SW	–	LP mode PB EQ switching pin.
31	REC EQ	I	Linear audio REC AMP negative input for REC EQ network connection.
32	LINREC	O	This pin drives an external high voltage head switch or bias OSC.
33	RECOUT	O	Linear audio recording AMP output pin.
34	PB IN	I	Linear audio PB AMP input pin.
35	RES SW	–	LP mode PB EQ switching pin.
36	PB DC	–	DC de-coupling capacitor connecting pin for linear audio PB AMP.
37	DCFBL	–	DC feedback pin for L-ch.
38	DCREFL	–	DC reference voltage pin for L-ch.
39	EMPHL	–	L-ch total emphasis setting pin.
40	RECTL	–	L-ch rectifier DC de-coupling pin.
41	DETL	–	L-ch attack/recovery time constant setting pin.
42	VREF	–	Capacitor connecting pin for reference voltage. (+3.8 V)
43	VSSA1	–	Analog ground for LF circuit.
44	DETR	–	R-ch attack/recovery time constant setting pin.
45	RECTR	–	R-ch rectifier DC de-coupling pin.
46	EMPHR	–	R-ch total emphasis setting pin.
47	DCREFR	–	DC reference voltage pin for R-ch.
48	DCFBR	–	DC feedback pin for R-ch.
49	RFIX	–	Fixed bias current generating circuit pin.
50	VDDA1	–	+12 V analog power supply pin for LF circuit.
51	AFNR	I/O	Audio output pin from R-ch NR circuit when recording and by-pass mode. Audio input pin for R-ch NR circuit when PB mode.
52	AFMR	I/O	Audio input pin for R-ch clipping circuit when REC & by-pass mode. Audio output pin from sample & holding circuit.
53	RCCOR	–	Voltage to current converting pin for R-ch OSC that is grounded with an external resistor.
54	VssA1	–	Analog ground pin for Hi-Fi circuit.
55	RBPF	–	Bias current generating pin for internal BPF that is grounded with an external resistor.
56	FM OUT	O	REC FM signal output pin.
57	FM IN	I	PB FM signal input pin.
58	VDDA1	–	+5 V analog power supply pin for Hi-Fi circuit.
59	RCCOL	–	Voltage to current converting pin for L-ch OSC that is grounded with an external resistor.
60	ENV OUT	O	Envelope detector output pin.
61	HID	I	Head ID pulse input pin for sample & holding circuit.
62	CM MUTE	–	Capacitor connecting pin for PB mute timing control.
63	AFML	I/O	Audio input pin for L-ch clipping circuit when REC & by-pass mode. Audio output pin from sampled & holding circuit.
64	AFNL	I/O	Audio output pin from L-ch NR circuit when recording and by-pass mode. Audio input pin for L-ch NR circuit when PB mode.

TDA8417 (MULTIPLXED DECODER)


NO CONNECTION
EXTERNAL AF INPUT (E4)
NO CONNECTION
ANTI-ALIASING
SOUND CHANNEL INPUT AF1, AF2 (E1, E2)
DEMATRIX AND DE. EMPHASIS
E1' L.A
E2' R.B
AF SWITCH
SOURCE SELECTOR
OUTPUT A1~4 AF1, 2 OUTPUT
CLOCK
CONTROL
CONTROL
CONTROL
CLOCK
RESET
ANTI-ALIASING
54.7KHz
CLOCK
CLOCK
117Hz
RESET
274Hz
CLOCK
CLOCK
CONTROL
RESET
OSCILLATOR INPUT (OR QUARTZ)
OSCILLATOR
FREQUENCY COUNTER
CLOCK
SUPPLY
POWER ON RESET
I²C-BUS TRANSCEIVER
LOGIC
CONTROL PORT C1
CONTROL PORT C2
SUPPLY VOLTAGE
ANALOG/DIGITAL GND
RIPPLE REJECTION IMPROVEMENT
NO CONNECTION
SCL/SDA SERIAL DATA/CLOCK LINE
MUTE INPUT
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20

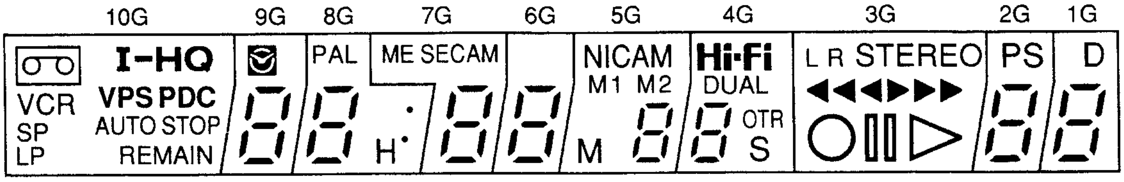
UPD78042FGF NXHDSPL1 (OPERATION MI-COM)

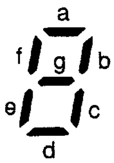
PIN No.	PORT NAME	I/O	FUNCTION
1~7 78~80	T1~T10	O	FLD digit data output.
8,52	VDD	–	+5 V power supply.
9	OSD CLK	O	Serial clock output to OSD IC.
10	OSD DATA	O	Serial data output to OSD IC.
11	N.C	–	Not used.
12	OSD CS	O	Chip enable output to OSD IC.
13	SYS RDY	O	Syscon transfer ready signal output.
14	SYS CLK	I	Serial clock input from SYSCON MI-COM.
15	OPE DATA	O	Serial data output to SYSCON MI-COM.
16	SYS DATA	I	Serial data input from SYSCON MI-COM.
17	$\overline{\text{RESET}}$	I	Reset signal input.
18	M3L CLK	I/O	I²C BUS serial clock in/out for EEP-ROM & TELE TEXT DECODER.
19	N.C	–	No connection.
20	AVSS	–	Ground for A/D converter.
21	FM MONO.H	O	This pin selects the signal via decoder if the NICAM reception signal is scrambled. (SEG only)
22	DECODER.H	O	This pin lets the FM mono signal to the output of the decoder if the NICAM reception signal is scrambled.
23	OSC.H	O	Erase/bias OSC on/off control output. (H : OSC on)
24	MIC H	I	Mic input detection pin. (H : mic in)
25	A.R.DET	I	Audio level meter input. (R-ch)
26	A.L.DET	I	Audio level meter input. (L-ch)
27	VR REC	I	Rec level control input. (A/D input)
28	VR PHONE	I	Headphone volume control input. (A/D input)
29	AVDD	–	+5 V analog power supply for A/D converter.
30	AVREF	I	A/D converter reference voltage input. (+5 V)
31	S.PACK	I	S-VHS tape detection switch input. (H : S-VHS tape)
32	N.C	–	No connecton.
33	VSS	–	Ground pin.
34	X1	I	Main clock (5.0 MHz) input/output.
35	X2	O	
36	NTSC	O	NTSC select output. (H : NTSC)
37	$\overline{\text{SEC.MES}}$	O	SECAM/MESECAM select output.
38	$\overline{\text{SECAM}}$	O	PAL/SECAM select output.
39	NP	O	NTSC → PAL/NTSC 4.43 mode select output. (NTSC → PAL : H)
40	N.C	–	No connection
41	DEC CTL	I	Decoder on/off control input. (L : decoder on, H : decoder off)
42	WS/$\overline{\text{NOR}}$	O	Wide/normal screen control output.
43	WS.J	I	Wide screen judge input. (H : wide screen)
44	$\overline{\text{SAT}}$	O	Satellite select control output. (L : satellite)
45	$\overline{\text{DAVN}}$	I	VPS/PDC code reception condition input pin from VPS/PDC decoding IC.
46,47	N.C	–	No connection.
48	IC	–	Ground pin.
49	N.C	–	No connection
50	I²C DATA	I/O	I²C BUS serial data in/out for VPS/PDC decoder & EEP ROM.
51	I²C CLK	O	I²C BUS serial clock ouput for VPS/PDC decoder & EEP ROM.
53~57	N.C	–	No connection.
58,59	K1,K2	I	Key scan input.
60~63	N.C	–	NO connection.
64~70 72~75	S1~S11	O	FLD segment data output.
71	V LOAD	I	FLD pull down power supply.

UPD78042FGF NXHDSPH1/UPD78046HGF NXHDSPT1 (OPERATION MI-COM)

PIN No.	PORT NAME	I/O	FUNCTION
1~7 74~80	T1~T14	O	FLD digit data output.
8,52	VDD	–	+5 V power supply.
9	OSD CLK	O	Serial clock output to OSD IC.
10	OSD DATA	O	Serial data output to OSD IC. (NXHDSPH1 only)
	TXTMIX	O	TEXT/MIX select output. (NXHDSPT1 only))
11	OSD/$\overline{\text{TXT}}$	O	OSD/TXT select output. (H : OSC, L : TEXT/EE) (NXHDSPT1 only)
12	OSD CS	O	Chip enable output to OSD IC. (NXHDSPH1 only)
	TXT 5	O	TEXT power supply (5V) on/off control pin. (NXHDSPT1 only)
13	SYS RDY	O	Syscon transfer ready signal output.
14	SYS CLK	I	Serial clock input from SYSCON MI-COM.
15	OPE DATA	O	Serial data output to SYSCON MI-COM.
16	SYS DATA	I	Serial data input from SYSCON MI-COM.
17	$\overline{\text{RESET}}$	I	Reset signal input.
18	M3L CLK	I/O	I²C BUS serial clock in/out for TELE TEXT decoder.
19	N.C	–	No connection.
20	AVSS	–	Ground for A/D converter.
21	FM MONO.H	O	This pin selects the signal via decoder if the NICAM reception signal is scrambled.
22	DECODER.H	O	This pin lets the FM mono signal to the output of the decoder if the NICAM reception signal is scrambled.
23	OSC.H	O	Erase/bias OSC on/off control output. (H : OSC on)
24	MIC H	I	Mic input detection pin. (H : mic in)
25	A.R.DET	I	Audio level meter input. (R-ch)
26	A.L.DET	I	Audio level meter input. (L-ch)
27	VR REC	I	Rec level control input. (A/D input)
28	VR PHONE	I	Headphone volume control input. (A/D input)
29	AVDD	–	+5 V analog power supply for A/D converter.
30	AVREF	I	A/D converter reference voltage input. (+5 V)
31	S.PACK	I	S-VHS tape detection switch input. (H : S-VHS tape)
32	N.C	–	No connecton.
33	VSS	–	Ground pin.
34	X1	I	Main clock (5.0 MHz) input/output.
35	X2	O	
36	NTSC	O	NTSC select output. (H : NTSC)
37	$\overline{\text{SEC.MES}}$	O	SECAM/MESECAM select output.
38	$\overline{\text{SECAM}}$	O	PAL/SECAM select output.
39	NP	O	NTSC → PAL/NTSC 4.43 mode select output. (NTSC → PAL : H)
40	I²C EN	O	TELE TEXT decoding IC chip enable control. (NXHDSPT1 only)
41	DEC CTL	I	Decoder on/off control input. (L : decoder on, H : decoder off)
42	WS/$\overline{\text{NOR}}$	O	Wide/normal screen control output.
43	WS.J	I	Wide screen judge input. (H : wide screen)
44	$\overline{\text{SAT}}$	O	Satellite select control output. (L : satellite)
45	$\overline{\text{DAVN}}$	I	VPS/PDC code reception condition input pin from VPS/PDC decoding IC.
46	FULL TXT	I	Full text mode input pin. (H : fill TEXT L : MIX/E-E)
47	BLANK	I	Blanking pulse input pin.
48	IC	–	Ground pin.
49	M3L DATA	I/O	I²C BUS serial data in/out for TELE TEXT decoder. (NXHDSPT1 only)
50	I²C DATA	I/O	I²C BUS serial data in/out for VPS/PDC decoder & EEP ROM.
51	I²C CLK	O	I²C BUS serial clock ouput for VPS/PDC decoder & EEP ROM.
53~57	N.C	–	No connection.
58,59	K1,K2	I	Key scan input.
60~70 72,73	S1~S13	O	FLD segment data output.
71	V LOAD	I	FLD pull down power supply.

FLD FIP10CCM7A


10G
9G
8G
7G
6G
5G
4G
3G
2G
1G
I-HQ
VCR
SP
LP
VPS PDC
AUTO STOP
REMAIN
PAL
ME SECAM
H
NICAM
M1 M2
M
Hi·Fi
DUAL
OTR
S
L R STEREO
PS
D

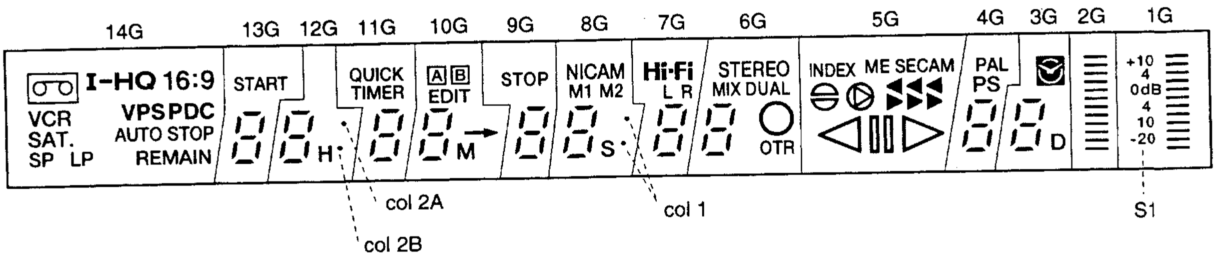


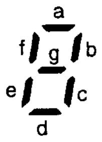
Internal connection

	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G
S1	STOP	a	a	a	a	a	a	▶▶▷	a	a
S2	AUTO	b	b	b	b	b	b	◁◀◀	b	b
S3	VCR	c	c	c	c	c	c	▯▮	c	c
S4	SP	d	d	d	d	d	d	○	d	d
S5	LP	e	e	e	e	e	e	▮▯	e	e
S6	REMAIN	f	f	f	f	f	f	◀◁◁	f	f
S7	📼	g	g	g	g	g	g	▷	g	g
S8	**VPS**	⏲	H			M	S	▷▷▶	PS	D
S9	**PDC**		•	SECAM		M2	OTR	STEREO		
S10	**I-HQ**		•	ME		M1	DUAL	R		
S11			PAL			NICAM	**Hi·Fi**	L		

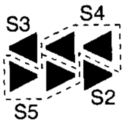
FLD FV720G

GRID ASSIGNMENT

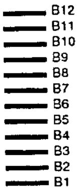

14G
13G
12G
11G
10G
9G
8G
7G
6G
5G
4G
3G
2G
1G
I-HQ 16:9
VCR
SAT.
SP LP
VPS PDC
AUTO STOP
REMAIN
START
H
QUICK TIMER
A B
EDIT
M
STOP
NICAM
M1 M2
S
Hi-Fi
L R
STEREO
MIX DUAL
OTR
INDEX ME SECAM
PAL
PS
D
+10
4
0dB
4
10
-20
col 2A
col 2B
col 1
S1



(3G,4G,6G~13G)



(5G)


B12
B11
B10
B9
B8
B7
B6
B5
B4
B3
B2
B1

(1G,2G)

INTERNAL CONNECTION

	14G	13G	12G	11G	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G
P1	—	—	—	—	—	—	—	—	—	S2	—	—	—	S1
P2	**PDC**	—	H	—	M	—	S	—	STEREO	SECAM	—	D	B12	B12
P3	STOP	—	col 2B	—	→	—	col 1	—	DUAL	ME	—	⏲	B11	B11
P4	**VPS**	START	—	QUICK TIMER	🄱	STOP	NICAM	**Hi-Fi**	○	S3	PAL	—	B10	B10
P5	AUTO	—	—	—	🄰	—	M2	R	MIX	S4	—	—	B9	B9
P6	REMAIN	—	col 2A	—	EDIT	—	M1	L	OTR	S5	PS	—	B8	B8
P7	16:9	a	a	a	a	a	a	a	a	▷	a	a	B7	B7
P8	**I-HQ**	b	b	b	b	b	b	b	b	▯	b	b	B6	B6
P9	LP	f	f	f	f	f	f	f	f	▯	f	f	B5	B5
P10	SP	g	g	g	g	g	g	g	g	INDEX	g	g	B4	B4
P11	SAT.	c	c	c	c	c	c	c	c	⊖	c	c	B3	B3
P12	VCR	e	e	e	e	e	e	e	e	⊙	e	e	B2	B2
P13	📼	d	d	d	d	d	d	d	d	◁	d	d	B1	B1

ABBREVIATIONS (VIDEO)

ABBREVIATION	EXPLANATION	ABBREVIATION	EXPLANATION
A	Audio or Analogue	MOD	MODulator
AC	Alternating Current	MRS	Motor ReverSe
ACC	Automatic Color Control	NAP	NtscAmusement Pal
A/C	Audio and Control	NG	Noise Gate
ADJ	ADJust (ment)	NICAM	Near Instanteneous CompandAudio Multiplex
AFC	Automatic Frequency Control		
AFT	Automatic Fine Tuning	NON-LIN	NON-LINear
AGC	Automatic Gain Control	N.T.S.C.	National Television System Committee
AH	Audio Head	OSC	OSCillator
AL	ALways (voltage)	PAL	Phase Alternation by Line
ALC	Automatic Level Control	PB	Play Back
A-SW.P	Audio SWitching Pulse	PCB (P.C.B)	Printed Circuit Board
A-MUTE	Audio MUTE	P-COM	Phase-COMparator
ANT	ANTenna	P DOWN	Power DOWN
APC	Automatic Phase Control	PG	Pulse Generator
ASSY	ASSemblY	P.I.P	Picture In Picture
BAL	BALance	PL, PLG	PLunger (PLunGer)
B DOWN	Break DOWN	PRG (PGM)	PRoGram (ProGraM)
BGP	Burst Gate Pulse	PU	Pick UP (head, pulse)
BLK	BLocK or BLacK	PWR	PoWeR
BOP	Blank Output Pulse	Q	Quality factor
BPF	Band Pass Filter	R	Right
BU	Back Up (voltage)	RAM	Random Access Memory
B/W	Black and White	REC	RECord
C	Chroma or Color	REF	REFerence
CCD	Charge Coupled Device	REF-V	REFerence Vertical signal
CCIR	Comit Consultatif International des Radio communications	REG	REGulator
		REV (REVW)	REView (REVieW)
CH (ch)	CHannel (channel)	REW	REWind
CLK	CLocK	RF	Radio Frequency
CM	Capstan Motor	ROM	Read Only Memory
CN	CoNnector	R.S SW	Record-Safety SWitch
COMP	COMParator	RST (RES)	ReSet (RESet)
CSW	Cassette SWitch	RVS	ReVerSe
CSYNC	Composite SYNC	S	Sensor, Shield
CTL	ConTrol	SAW	Surface Acoustic Wave
CUE	CUE	SC	SimulCast
DAC	Digital to Analog Converter	S CLK	Serial CLocK
DC	Direct Current	SECAM	SÉquentiel Couleur À Mémoire
DEMOD	DEMODulator	S & H	Sample and Hold
DET	DETetct (DETector)	SLP	Super Long Play
DL	Delay Line	SP	Standard Play
DM	Drum Motor	SPD	SPeeD
DOC	Drop Out Compensator	SRP	Supply Reel Pulse
D.P.E	Drum Phase Error	SRV	SeRVo
D.PG	Drum Pulse Generator	SOW	Sync On Word
EE	Electronic to Electronic	STBY	STandBY
EF	Emitter Follower	S.VHS	Super VHS
EMPHA	EMPHAsis	SW	SWitch
ENV	ENVelope	SW'NG	SWitchiNG
EP	Extended Play	SWP	SWitching Pulse
EP ROM	Erasable Programmable ROM	SYNC	SYNChronize
EQ	EQualizer	T-AUDIO	Tuner AUDIO
FE	Full track Erase	TPZ (TRAPE)	TraPeZoid (TRAPEzoid)
FF	Flip-Flop or Fast Foward	TRK	TRacKing
FG	Frequency Generator	TRP	Take up Reel Pulse
Fig	Figure	T/U	Take Up
FLD	FLuorescent Display	TV	TeleVision
FM	Frequency Modulation	UHF	Ultra High Frequency
Fo	resonance Frequency	UNR	UNRegulated (voltage)
FREQ	FREQuency	V	Vertical or Video
GND	GrouND	VASS	Video Address Search System
H	Horizontal	VCO	Voltage Controlled Oscillator
HP	Horizontal (sync) pulse	VH	Video Head
HPF	High Pass Filter	VHF	Very High Frequency
HQ	High Quality System	VHS	Video Home System
IC	Integrated Circuit	VIF	Video Intermediate Frequency
ID	IDentification	VISS	Video Index Search System
IDL	IDLe (Voltage)	VJ	Video Judge
IMS	Interactive Monitor System	VM	Voltage for Memory
INS	INSert	VOB	Video On Blank
INV	INVerter	VOW	Video On Word
L	Left	VP	Vertical (sync) Pulse
LED	Light Emitting Diode	VPS	Video Program System
LIM	LIMitter	VPT	Video Programming by video Text
LM	Loading Motor	VT	Voltage for Tuning
LM STP	Loading Motor STop	WHT	WHiTe
LP	Long Play	Y	Luminance
LPF	Low Pass Filter	2H	2 Hour (SP)
ME-SECAM	Middle East SECAM	4H	4 Hour (LP)
MI-COM	MIcro COMputer	6H	6 Hour (SLP/EP)
MM	Mono-stayble Multi		

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